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DIFFERENTIAL OF 1939

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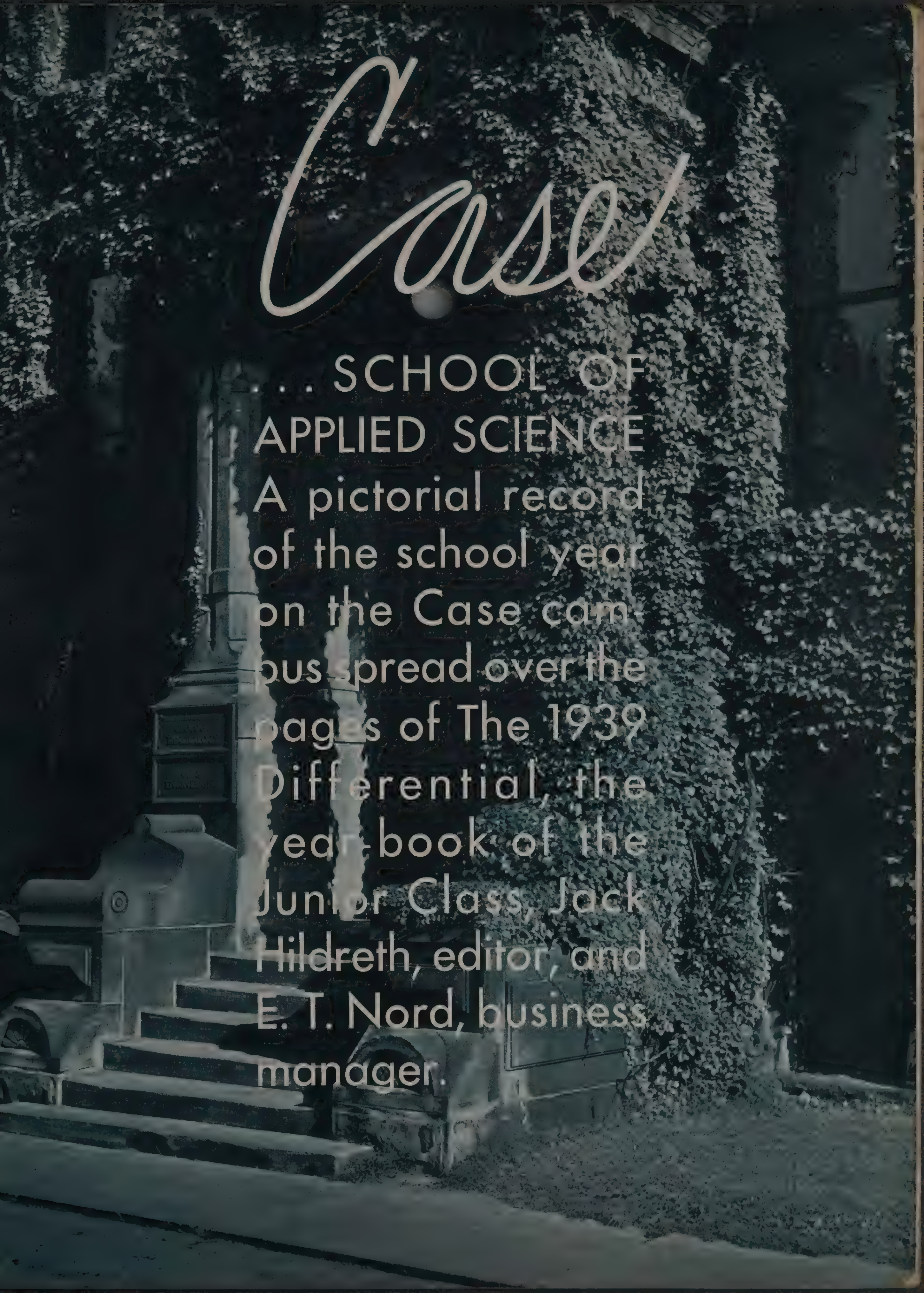


Case

... SCHOOL OF
APPLIED SCIENCE
A pictorial record of the school year on the Case campus spread over the pages of The 1939 Differential, the year-book of the Junior Class, Jack Hildreth, editor, and E. T. Nord, business manager.

NER & SWASEY CO.

A TRIBUTE

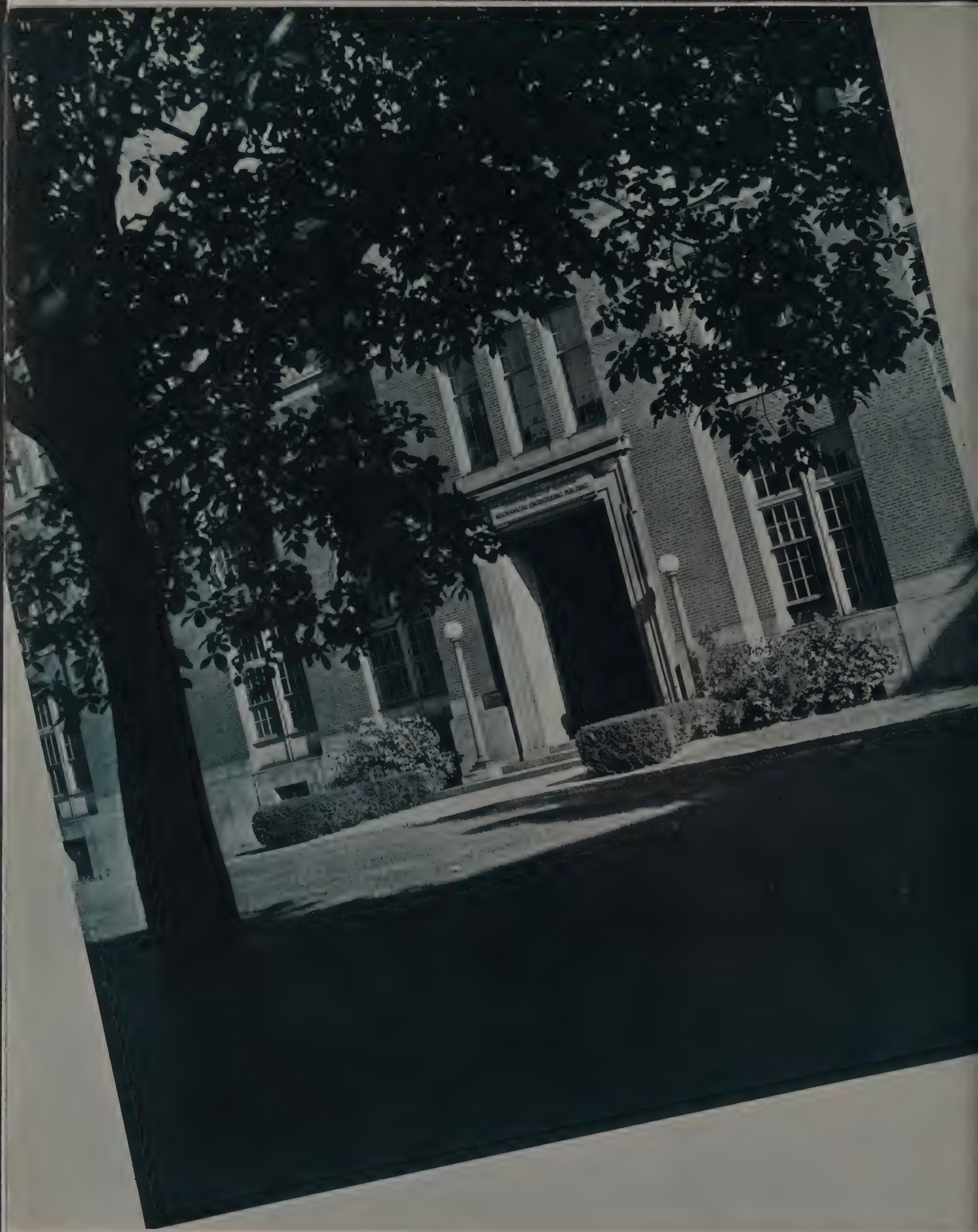
Howard Beaufait

Ambrose Swasey has gone the way of all flesh and the world is busy creating a fine cortege of adjectives for another great man who has shuffled off into the shadows to meet his God.

But it seems to me that the really worthwhile tributes will not be in the written or spoken words. Silence will come nearer to being the perfect compliment. I mean the kind of silence that engulfs one of the old Swasey workmen as he looks up from his machine, stares into space for a moment, and brushes away a tear before anyone sees it.

Ambrose Swasey, for all his accomplishments and scientific honors, was a simple man. He had the common touch. He created instruments to bring the stars within reach of man — and he captured hearts in doing it.

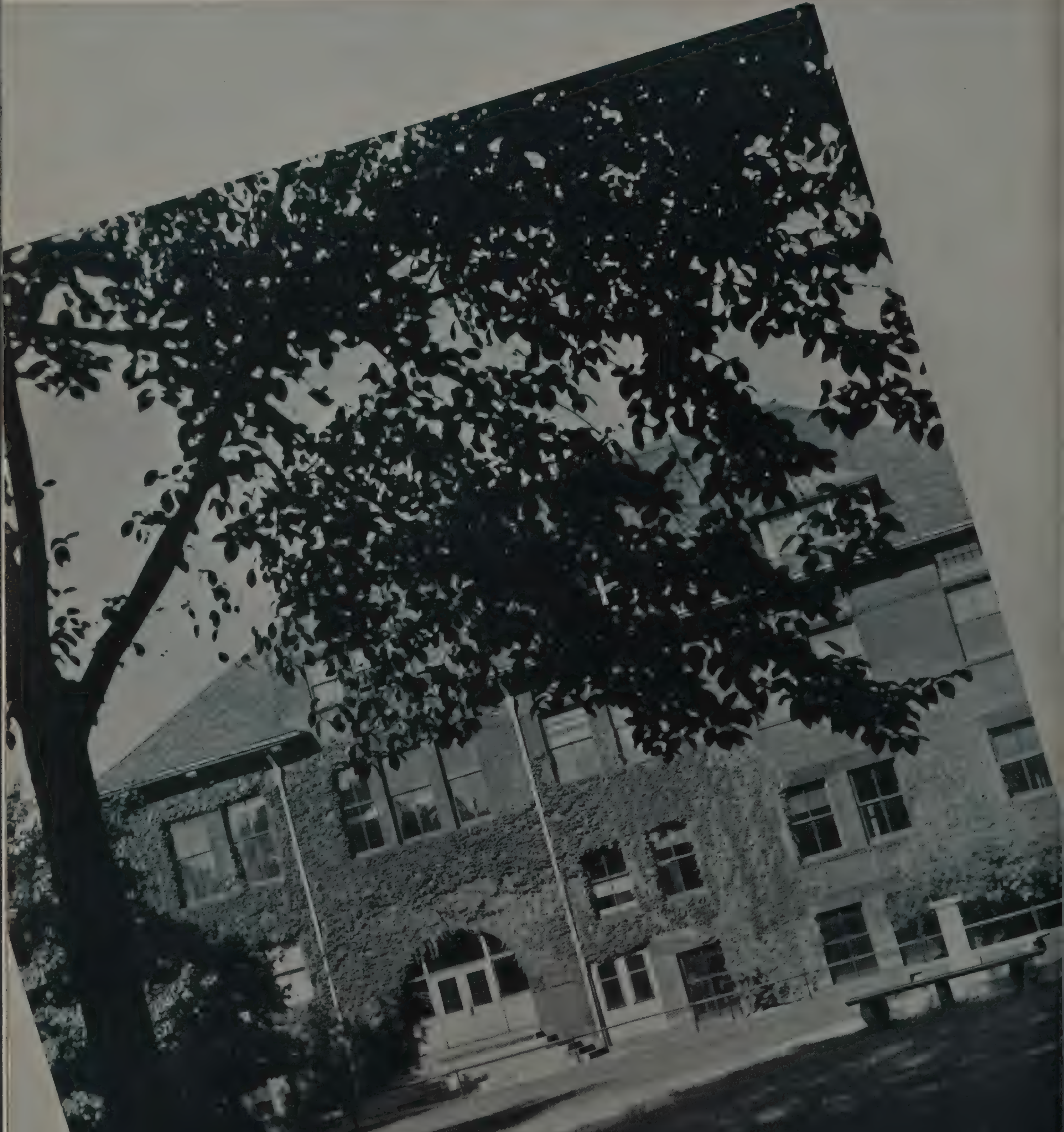
Ambrose Swasey

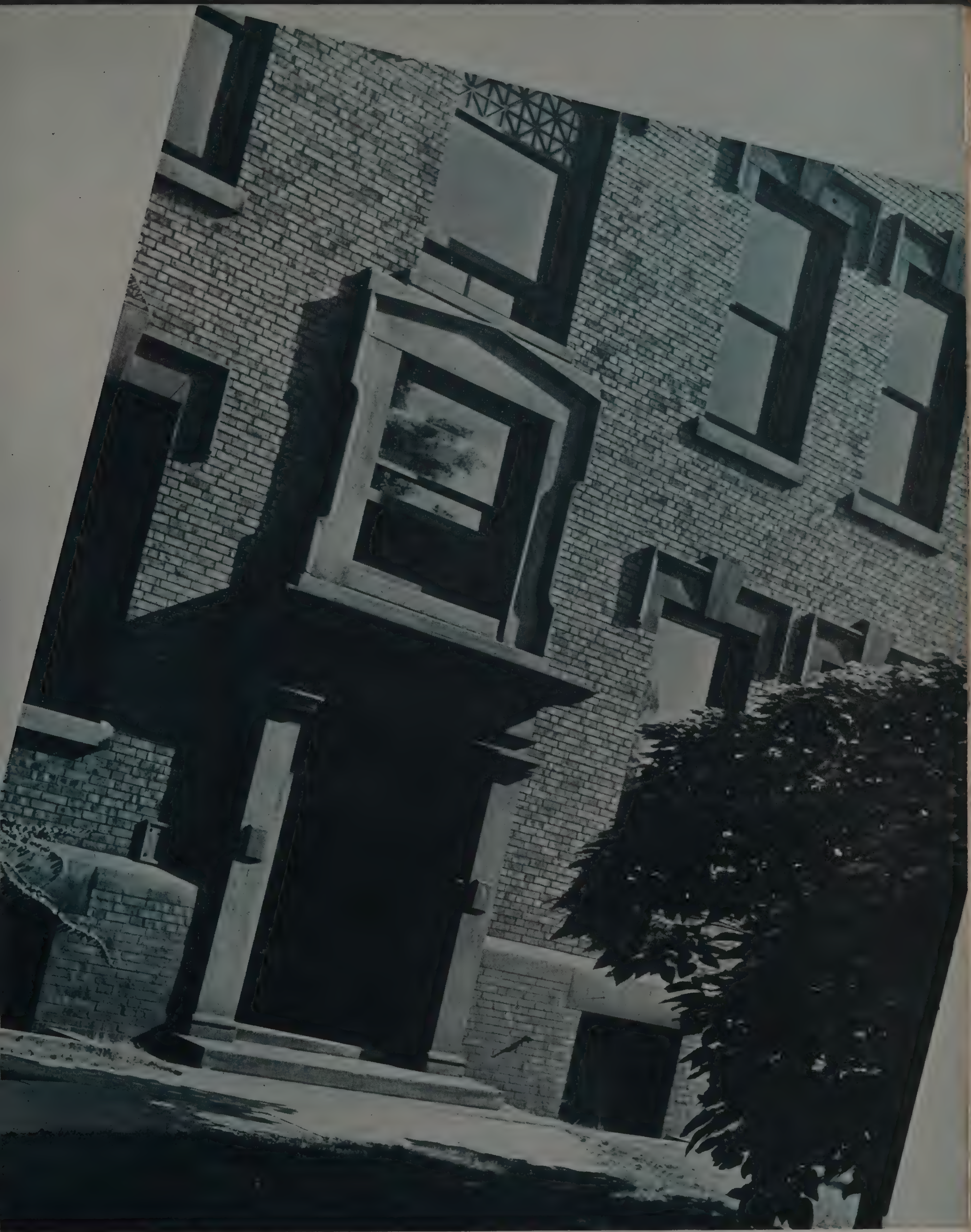

MECHANICAL ENGINEERING BUILDING

We love thy stern walls...

with ivy o'er grown,

We love thy long halls . .





where times mark is shown.

Thy memories dearer . . .

than all else we own.

HE LIVED A LIFE

What was his creed?
I do not know his creed, I only know
That here below, he walked the common road
And lifted many a load, lightened the task,
Brightened the day for others toiling on a weary way;
This his only meed; I do not know his creed.

What was his creed? I never heard him speak
Of visions rapturous, of Alpine peak
Of doctrine, dogma, new or old;
But this I know, he was forever bold
To stand alone, to face the challenge of each day
And live the truth, so far as he could see—
The truth that everyone makes free.

His creed? I care not what his creed.
Enough that never yielded he to greed
But served a brother in his daily need;
Plucked many a thorn and planted many a flower;
Glorified the service of each hour;
Had faith in God, himself, and fellow-men;—
Perchance he never thought in terms of creed,
I only know he lived a life, in deed!

—H. N. Fifer

William Elgin Wickenden
President

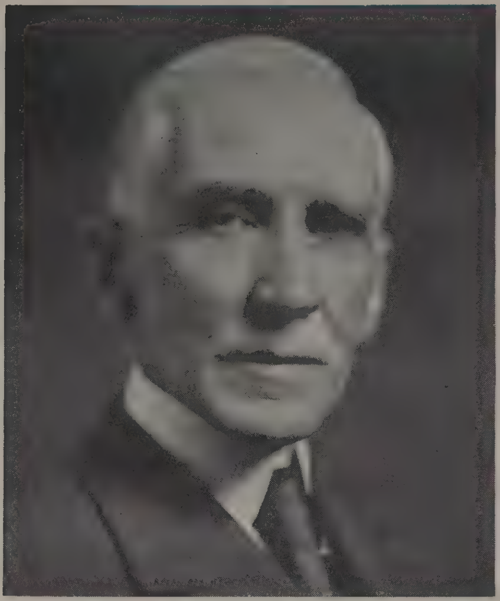
George E. VanDyke
Treasurer

The School

Theodore Moses Focke
Dean of the Faculty

ADMINISTRATION

TRUSTEES



Frank A. Quail, President of the Board of Trustees and prominent Cleveland attorney.

The Trustees of Case are men of large affairs who give generously of their time and thought in guiding the policies of the college and directing its finances. They do this as a public service. They want young men to have the help of able teachers and friendly guides in charting their course in life. They look to the future men of science to lead in overcoming poverty and disease and in building up the wealth and culture of our communities.

No college has done better than Case with its money and equipment, but now it needs to add new laboratories and endowment and a new plant for physical education and athletics. The Trustees are asking the friends of Case to help them in meeting these needs. They are making plans for a splendid future. Case is going forward.

BOARD OF TRUSTEES

Frank A. Quail, President
Wilbert J. Austin, '99
Phillip E. Bliss
Alexander C. Brown, '09
Eckstein Case
David T. Croxton, '94
Otto D. Donnell, '06
Cyrus S. Eaton
Sam W. Emerson, '02
Alwin C. Ernst
James R. Garfield
Tom L. Girdler
David S. Ingalls
Amos B. McNairy
James T. Pardee, '88

CIVIL ENGINEERING

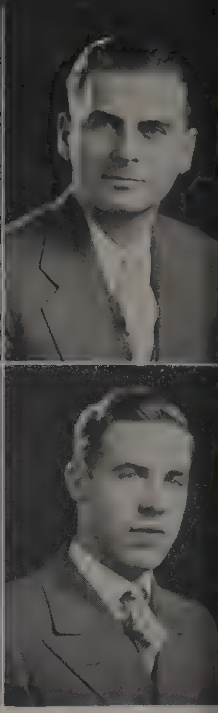
Civil Faculty: Mr. McClarran; Prof. Douglas; Prof. Ketchum; Prof. Barnes; Prof. Earnest

Prof. Barnes

CIVIL ENGINEERING FACULTY

SENIORS

Baty
Dalton
Roberts



Compton
Osgood

W. M. BATY
Zeta Psi
Freshman Football; Varsity Football; Glee Club; A.S.C.E.; A.R.B.A.

R. P. DALTON
Phi Delta Theta
Freshman swimming A.S.C.E.; A.R.B.A.

J. W. ROBERTS
Acacia Club; A.S.C.E.; A.R.B.A.

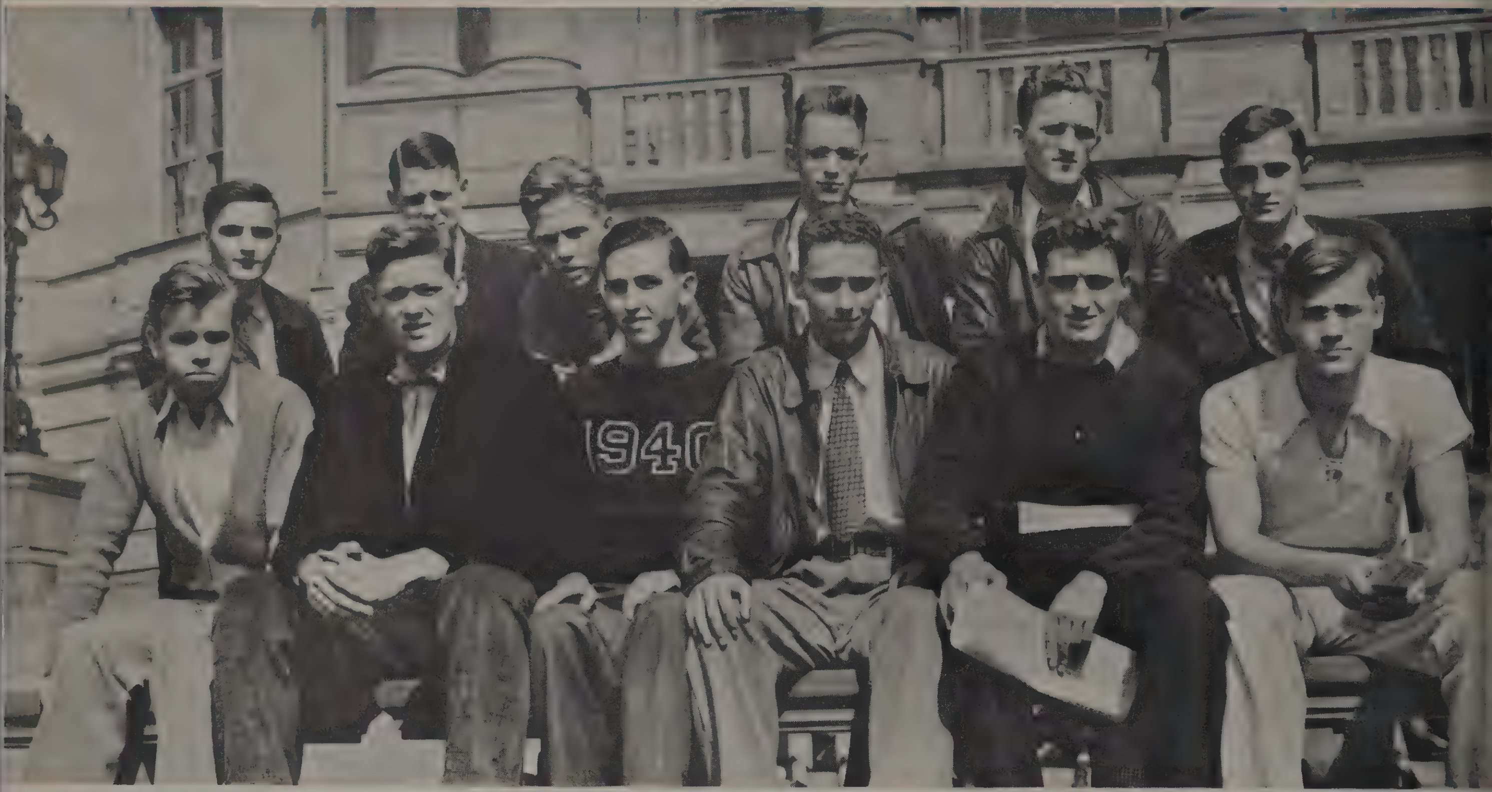
A. W. COMPTON
Lambda Chi Alpha
Blue Key; A.S.C.E. A.R.B.A.

S. P. OSGOOD
Beta Theta Pi
Tau Beta Pi; Blue Key; Theta Tau; Glee Club; Swimming; Student Editor Alumnus; A.S.C.E.; A.R.B.A.

JUNIORS

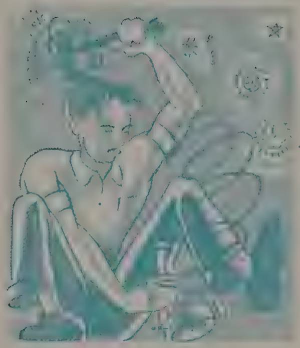
Blaha and Vogt talk over work in a civil manner.
Cowles was really studying, but Mast just came along for the picture.
Vanderhoff takes time out to think over his physics lesson.
"Well, Burrage, some class," say Weiss and Carlson.
We had to wake Peters from his afternoon nap to take this picture.
So sorry to interrupt, Mr. Zentgraf!
Well well, O'Grody is out bumming with civils Tapleshay and Taclo.
Who ever heard of a "Green" rose?
Noragon and Snow make the supreme sacrifice.
Taking leave among the leaves—Jackson and Hunt.

SOPHOMORES



First Row, left to right: Peltier; Byers; Wood; Newton; Schmidt; Dreifort.

Second Row: Rau; Hamlin; Converse; Petersen; Pochomis; Engler.



MECHANICAL ENGINEERING

Prof. Tuve
Mr. Marty
Mr. Theiss
Mr. Wright

Mr. Arnold Prof. Willey Mr. Brown

MECHANICAL ENGINEERING FACULTY

Prof. McKeeman
Mr. Seigel

Mr. Knight
Prof. Slaymaker
Mr. Pierce
Prof. Carson
Mr. Bennett

Prof. Vose

Dr. Weske
Mr. Wright

Z. B. ANDREWS
A.S.M.E.; Swimming.

R. E. BALBACH
Beta Theta Pi
Gamma Phi; Case Tech; Case Differential

J. J. BERLIN
Pi Sigma Phi
A.S.M.E.

C. W. CAIRNES
Phi Kappa Tau
Wrestling; Band; Glee Club; Orchestra; A.S.M.E.; Case Aero Club.

B. A. CAPRETTA
Track.

W. B. CHAMPNEY
Sigma Alpha Epsilon
Track; Cross Country; Pres. of Case Aero Club.

R. P. CRAIG
Sigma Nu
Football; Basketball; Track; Cross Country.

E. E. DEURING
A.S.M.E.; Band; Orchestra.

J. T. LOONEY
Phi Kappa Psi
Tau Beta Pi; Blue Key; Theta Tau; Bus. Mgr. Case Tech; Pres. Board of Mgrs.; Pres. Theta Tau; Editorial Staff Differential; Swimming; Wrestling; Honor Key; A.S.M.E.

J. E. NIGUT
Freshman Football; Freshman Basketball; Glee Club; Intramurals.

G. P. MILLER
A.S.M.E.; Orchestra; String Quartet.

W. K. RIEMENSCHNEIDER
Sigma Nu
Tau Beta Pi; Theta Tau; Blue Key; Tech; Alumnus; Soph. Class Pres.; Senate; Football; Fencing; Athletic Association; A.S.M.E.

R. W. McLANE
Fencing (captain); Track; A.S.M.E.; Chess Club.

H. W. RIDDLE
Beta Theta Pi
Blue Key; Board of Publications; Pres. Blue Key; Gamma Phi; Bus. Mgr. Differential; Honor Key;

A. G. NASON
Phi Kappa Psi
Blue Key; Football; Wrestling; A.S.M.E.; Pres. Junior Class.

W. B. SEAVER
Tau Beta Pi; Theta Tau; A.S.M.E.; Gamma Phi; Tech.; Differential; Glee Club; Track.

R. J. MLCKOVSKY
Phi Delta Theta
Blue Key; Senate; Basketball; Football; Les Bale Football Award.
A.S.M.E.; Interfraternity Council.

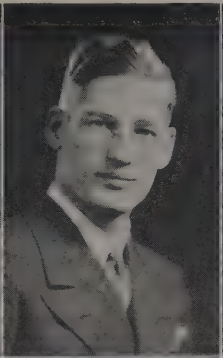
E. F. SCHUEREN, Jr.
Football; Basketball; A.S.M.E.

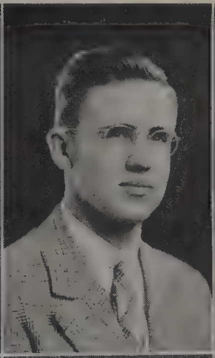
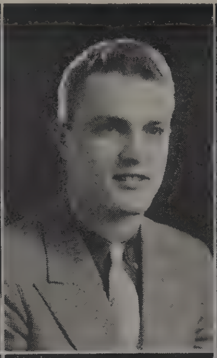
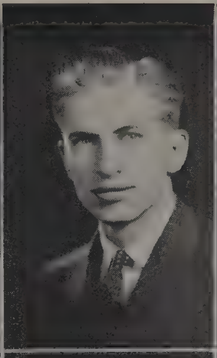
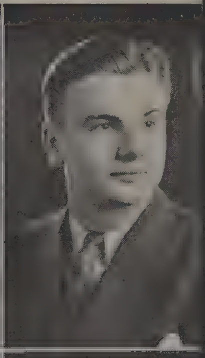
R. J. NEVILLE
Phi Kappa Psi
Theta Tau; Blue Key; Editor Differential; Bus. Staff Tech; Wrestling; Pres. Senior Class; Honor Key; A.S.M.E.; Track; Board of Publications; Football; Cross Country.

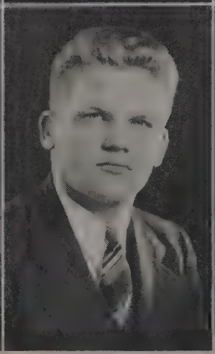
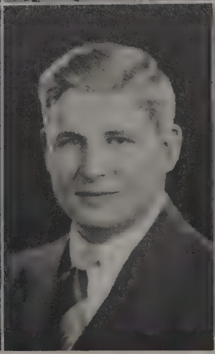
W. R. NEELY
Sigma Nu
Athletic Association; Wrestling; Track; A.S.M.E.

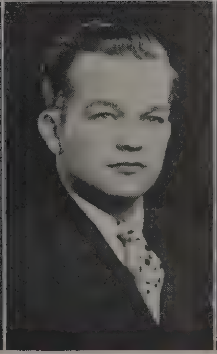
G. F. MARKLEY
Beta Theta Pi
Theta Tau; Blue Key; A.S.M.E.; Football; Glee Club; Athletic Board; Honor Key; Basketball Mgr.; Int. Aff. Club.

M. R. READ, Jr.
Sigma Alpha Epsilon
A.S.M.E.; Football; Wrestling.





Leoney McLane Mlckovsky Neely Nigot Riddle Schueren

Markley Miller Nason Neville Read Riemenschneider Seaver

E. A. FEAZEL
Phi Kappa Psi
Tau Beta Pi; Blue Key; Varsity Swimming; News Service; Tech business staff; Athletic Association; A.S.M.E.; Current Affairs Forum.

C. R. HORSBURGH
Phi Delta Theta
Theta Tau; Blue Key; Athletic Association; Case Tech; A.S.M.E.; Differential; Band; Foreign Affairs Club; Interfraternity Council.

R. E. FROMSON
Pi Sigma Phi
Std. Dir. News Service· Swimming Mgr.; Ass. Ed. Differential; Glee Club; Band; A.S.M.E.; Double Honor Key; Board of Mgrs.

J. L. JOHNSON, Jr.
Track; Gamma Phi; Fencing; Astronomy Club; Aero Club; Cross Country; Wrestling.

C. H. FRENCH, Jr.
Football; A.S.M.E.

A. B. JEPSON
Sigma Alpha Epsilon
Theta Tau; Blue Key; Pres Senate; Board of Mgrs.; A.S.M.E.; Varsity Swimming; News Service; Alumnus; Glee Club.

J. HACKER, Jr.
A.S.M.E.; Foreign Affairs Club.

W. R. KRAUS
Phi Kappa Psi
Blue Key; Band; Tennis; A.S.M.E.; Glee Club; Basketball.

J. J. GRAHAM
Phi Kappa Tau
Track Manager; Athletic Association; Theta Tau; Interfraternity Council; A.S.M.E.

R. W. KLUGE
Phi Delta Theta
Swimming; Case Tech; A.S.M.E.; Glider Club; Track; Current Affairs Forum.

G. R. HORNKE
Phi Kappa Psi
Theta Tau; Blue Key; Football; Swimming; Vice Pres. Freshman Class; Track.

S. W. HERWALD
Pi Sigma Phi
A.S.M.E.; Case Tech; Differential; News Service.

A. P. FRAAS
Fencing; Band; Math. Club; Astronomy Club; Athletic Association; Debate Club; Alumnus.

R. S. JEFFERIES
Football.

Feazel French Graham Herwald Horsburgh Jepson Kluge
Fraas Fromson Hacker Hornke Jeffries Johnson Kraus

E. J. SPEH, Jr.
Beta Theta Pi
A.S.M.E.; Editorial Staff Case Tech; Swim Mgr.; Football.

W. SPERLING
A.S.M.E.; Band; Orchestra.

G. W. STAIGER
A.S.M.E.; Debate Club.

R. L. SWANKER
Sigma Nu
Freshman Football; Basketball Mgr.; A.S.M.E.; Tech; Flying Club.

K. R. SWARTZ
Sigma Alpha Epsilon
A.S.M.E.; Band; Orchestra.

A. S. WILLARD, Jr.
Beta Theta Pi
Tau Beta Pi; Theta Tau; Senior Mgr. Basketball; A.S.M.E.

Speh Sperling
Staiger Swanker
Swartz Willard

Kaminskas—a bit of the old bull.

Johnson and Sackerson are getting nowhere fast.

Cerny and Courtot review for that test.

Hannon, Black, and Pelton register their amusement in three forms.

Todd. Happy?

Rock. Under the spreading chestnut tree—.

Crawford, Hildreth, and Nord show us the Life. By the way men, who is the beautiful girl?

Perhaps it is spring fever that has Wilson, Petzinger and White looking so ambitious.

Scheucher and Taber hold up their pal Doctor Skidmore.

Heddleson, Follet, Klein, and Spence were trying to help Strickland with his lab report.

Keller, Jamieson and Horn need the relaxation after that last test.

Bull Cummings and Swish Haynam. The old, old chorus when caught loafing, "We're calculating."

Low camera angles certainly make big men of Helmuth and Hewett.

Classes seem to be over for Dowden, Ganger and Van Hamersveld.

Lou Sisler appears to be very much interested in what is passing by the physics building.

JUNIORS

Zabel and Cook—One slide rule, four books, no work.

This dapper young man is none other than Jim Hendricksen, the white collar man.

That physics class must have been rather hard on Nicholl.

"Luke" Carpenter in a Joe College pose.

Burke and Clapper—two significant figures.

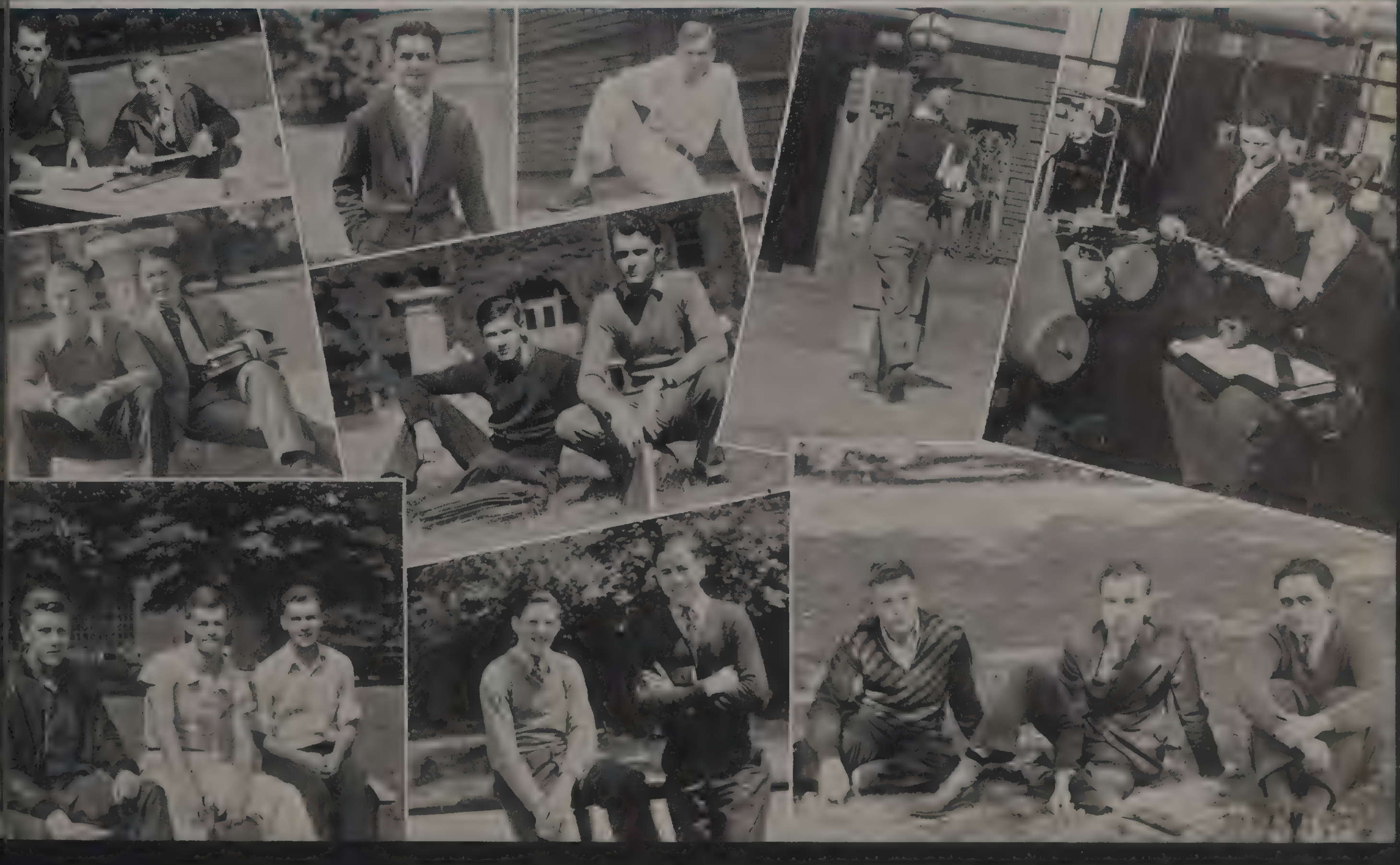
Father Time provides a leaning post for Williams and Wilber.

Ed Brohl and Curt Webb were talking over a test. Guess who flunked it.

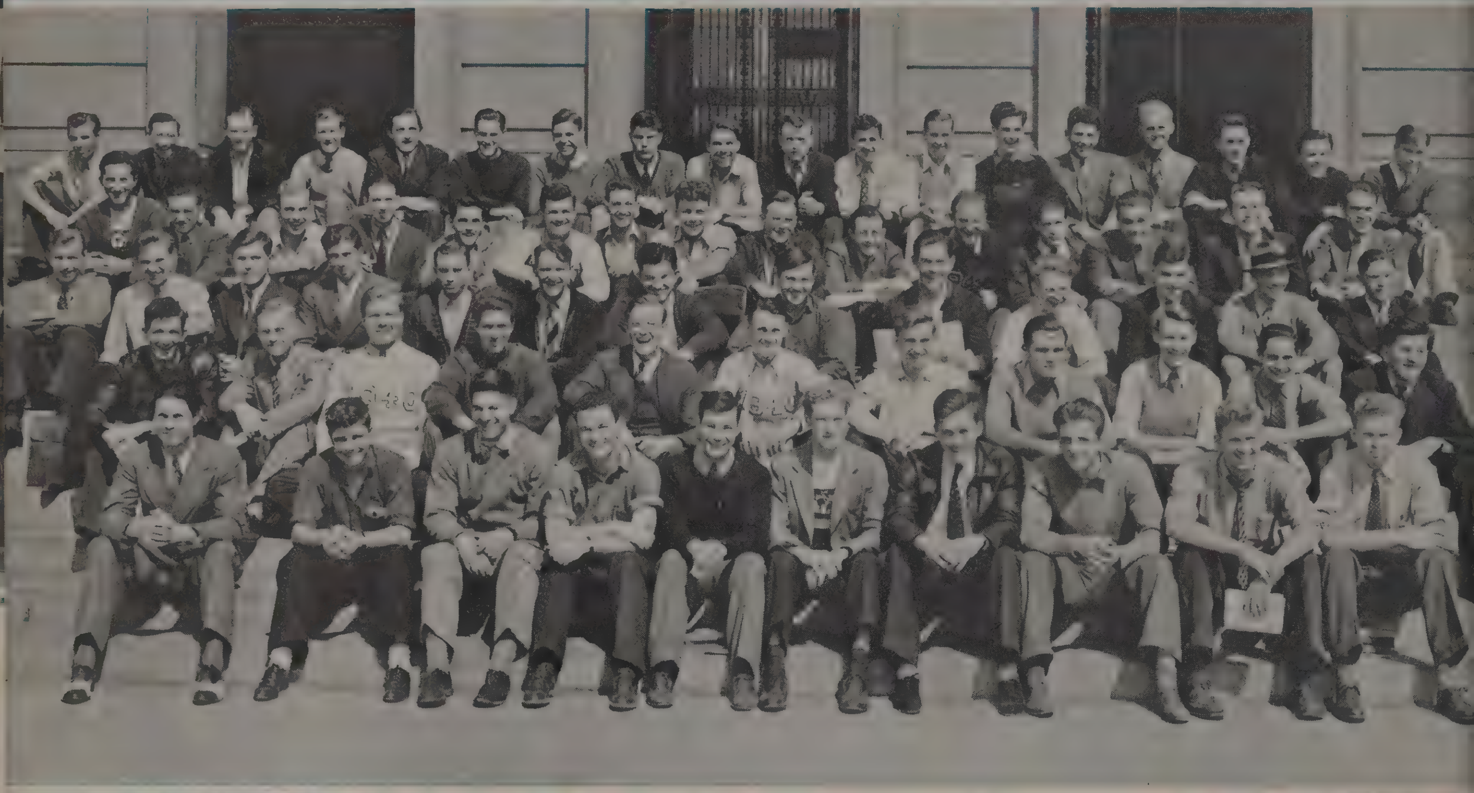
Hildebran, Warner and Bennett are just sitting and waiting for a vacation.

Never the ones to commit themselves, Hitz and Bosworth are always on the fence.

Denton, Ross and Drescher. Two engineers and a man with garters.



SOPHOMORES



Left to right, First Row: Chaney; Robinson; Wallace; Lawler; Sicherman; Schipper; Spatz; Nemeyer; Shelton; Cowan.

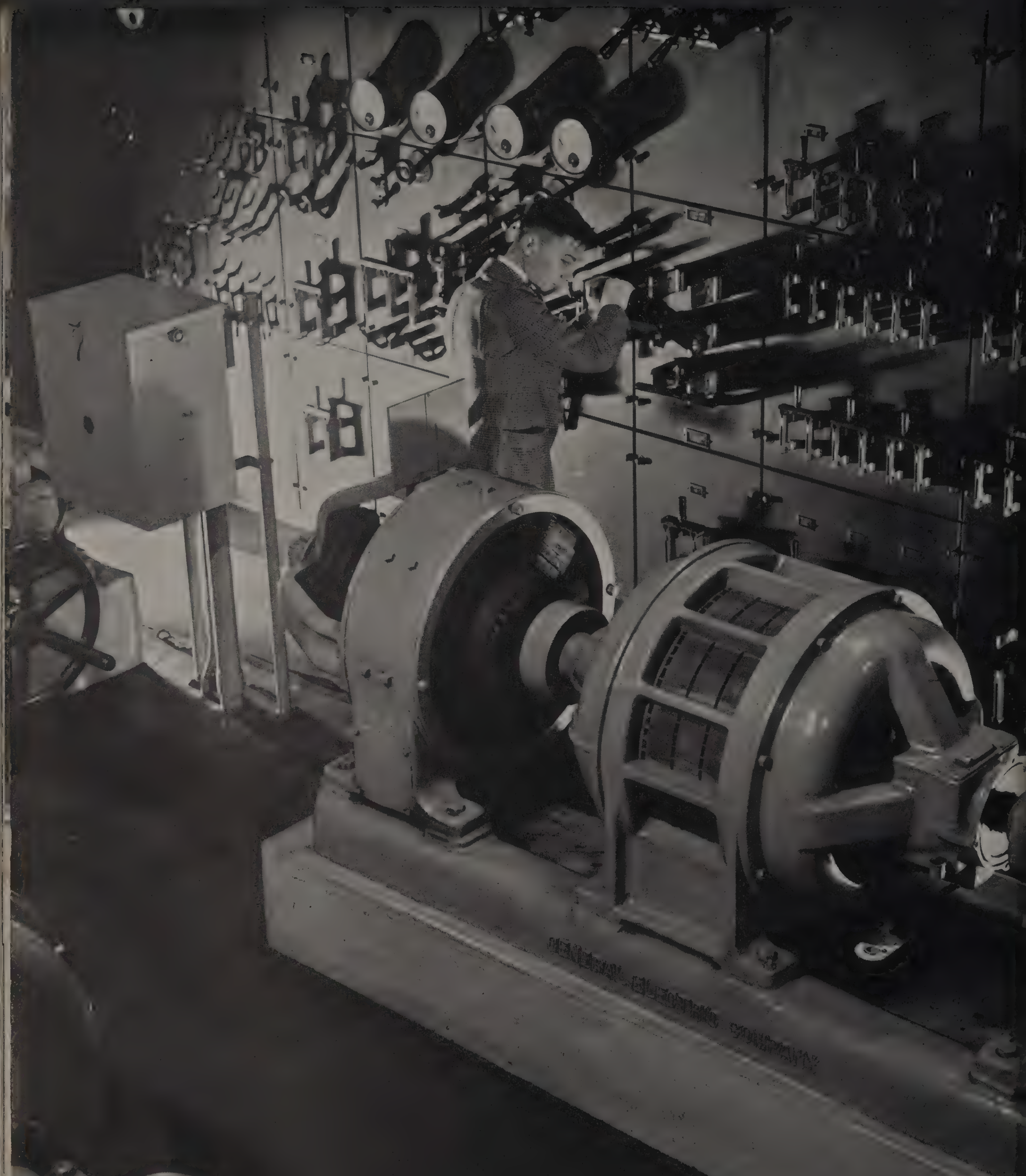
Second Row: Blackmore; Roberts; Henrikson; Doubrava; Boeckling; Kuemmel; Bechtel; Hoffman; Meyer; Deutsch; Fleck.

Third Row: Koehler; Gruber; Yenchius; Steel; Bolz, Lock; Smolensky; Gurs; Harley; Gloor; Marble; Oberst; Bell.

Fourth Row: Zanetic; Matlow; Herzberger; Kocmit; Knapp; Borofka; Forsythe; Gravenstreter; Parshall; Frohring; Jacklitch; Stern; Schenk; Formhais; DePould.

Fifth Row: Martens; Sampson; Wolf; Fagnan; Mitchell; Hodgson; Hookway; Edick; Rogell; Critzer; Thomas; Horsburgh; Noble; Williams; Andersen; Miner; Koellish; Wise.

ELECTRICAL ENGINEERING


GENERAL ELECTRIC COMPANY

ELECTRICAL FACULTY

[illegible]
Prof. Mill
[illegible]
[illegible]
[illegible]

Prof. Dates

Prof. Owens
Mr. Lensner
Prof. Dates
Mr. Zurcher

ELECTRICAL ENGINEERING SENIORS

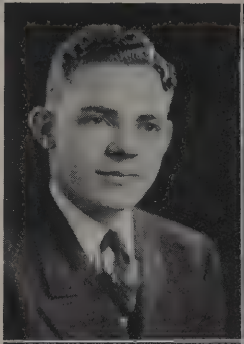
Allen

Beth

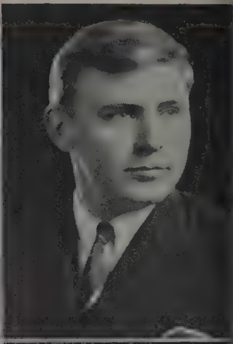
Bigelow

Birmingham

Cope



Haberland



Engelhardt

Hanville

M. ALLEN

A. G. BETH
Orchestra; Swimming Team; A.I.E.E.

W. T. BIRMINGHAM
Beta Theta Pi
A.I.E.E.; Glee Club.

W. BIRMINGHAM
Theta Kappa Psi
A.I.E.E.; Wrestling.

R. R. COPE
Sigma Alpha Epsilon
Radio Club; A.I.E.E.

E. R. HABERLAND
Beta Kappa
Eta Kappa Nu; A.I.E.E

R. A. ENGELHARDT
Sigma Nu
Tau Beta Pi; Eta Kappa Nu; Theta Tau; Swimming; Glee Club; Orchestra; Case Tech; A.I.E.E.

S. H. HANVILLE, Jr.
Sigma Alpha Epsilon
Tau Beta Pi; Eta Kappa Nu; Theta Tau; A.I.E.E.; Band; Wrestling Mgr.; Interfraternity Council.

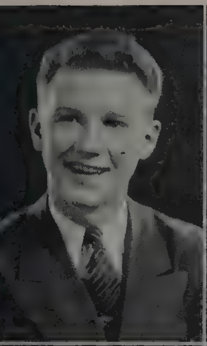
J. C. QUAYLE
Sigma Alpha Epsilon
A.I.E.E.

W. TURECKI

A. R. SATULLO
Theta Kappa Psi
Eta Kappa Nu; Debate Club; Newman Club; A.I.E.E.; Math. Club.

R. H. WELF
Eta Kappa Nu; Track; A.I.E.E.

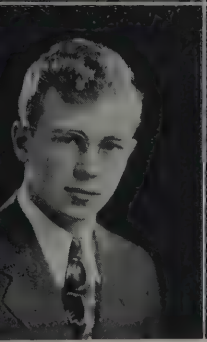
ELECTRICAL ENGINEERING SENIORS


Knox

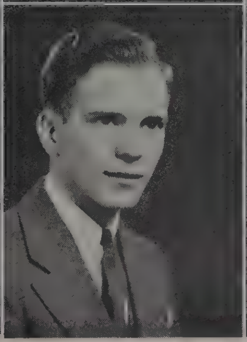
Louden

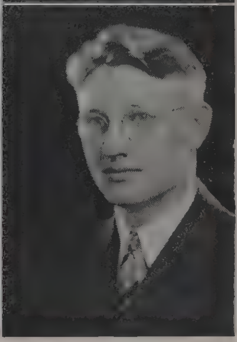
Quayle

Turecki


Loeffler

Nehman


Satullo


Welf

H. P. KNOX
Beta Kappa
Pres. Interfraternity Council; A.I.E.E.; Freshman football, track and swimming; Cross Country.

W. C. LOUDEN
Sigma Alpha Epsilon
Eta Kappa Nu; Theta Tau; A.I.E.E.; Glee Club; Band.

E. J. LOEFFLER
Phi Pi Phi
Eta Kappa Nu; Theta Tau; Interfraternity Council; Band; Glee Club; A.I.E.E.; Business Staff of Tech; Sec'y-Treas. Senior Class.

A. B. NEHMAN
News Service; A.I.E.E.

It's been a long time, but Mendelson, Middough and Wening are still together.

Kohn and Juvinall look a little dejected, but Happy lives up to his name.

Cachat surveys things calmly.

Elliot doesn't say much, but lover Milde makes up for that.

No wonder Harding and Gehrung do not smile—the worst is yet to come.

Two guesses as to what Weidenkopf and Kendall are looking at.

Willison and Bennett have found something interesting, but Sandberg gives his public a break.

JUNIORS

Duff and Zulak pause in their journey to the electrical building.

That spring urge seems to have gotten the better of Giloy and Jimenez.

When questioned, Gravenstreter replied, "I am happy about the whole thing."

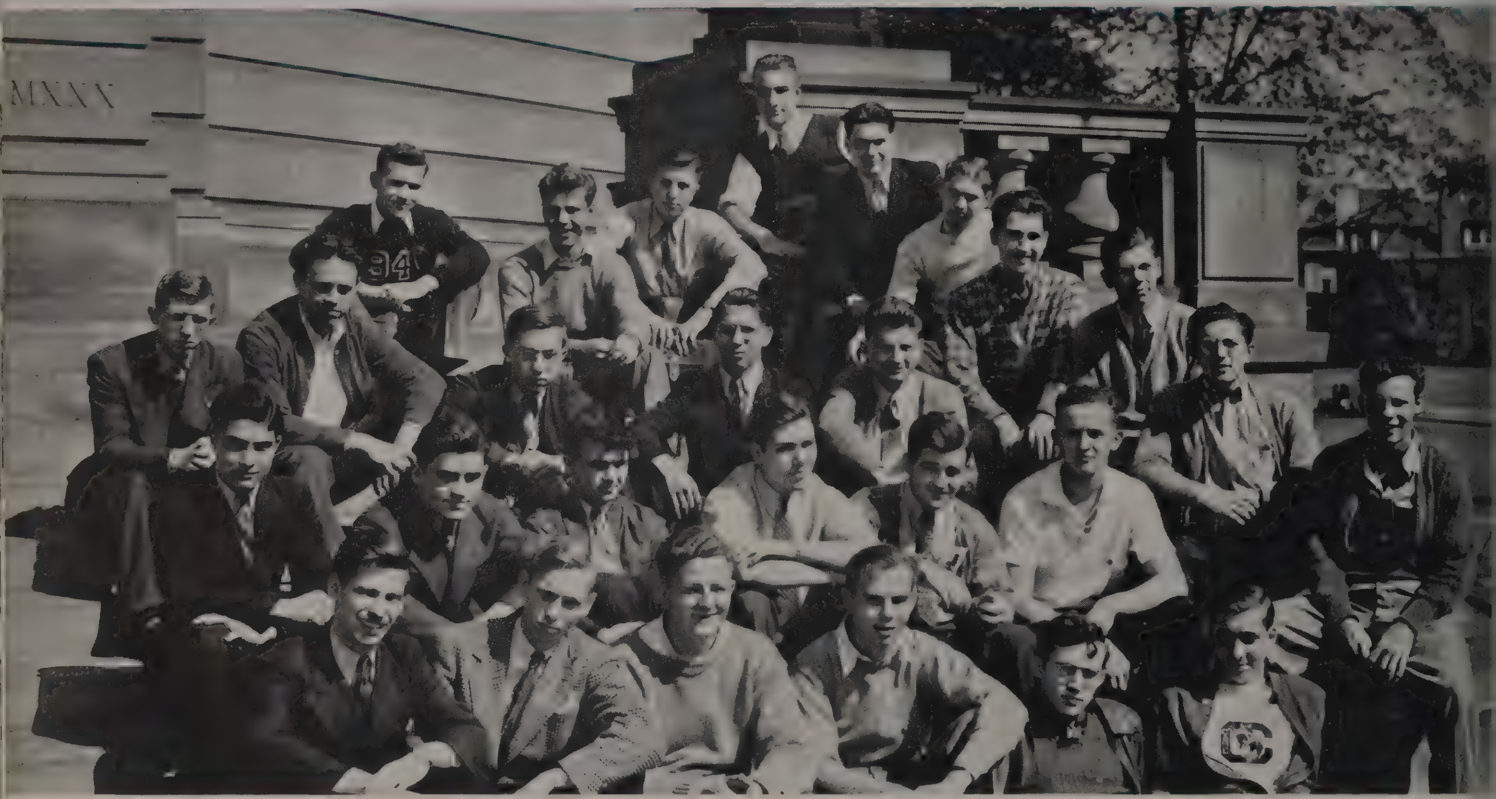
Wirtner must be in a hurry to go somewhere.

The electrical department sure must be hard on the boys. Just look at the smiles of Cadwell, Risser, Dudek and Mikos.

"I don't know what it is all about, but I am against it," says Mills.

Winterich, Yoder and Beears. This hour is Electricity Lab on their schedule How they're slaving.

SOPHOMORES



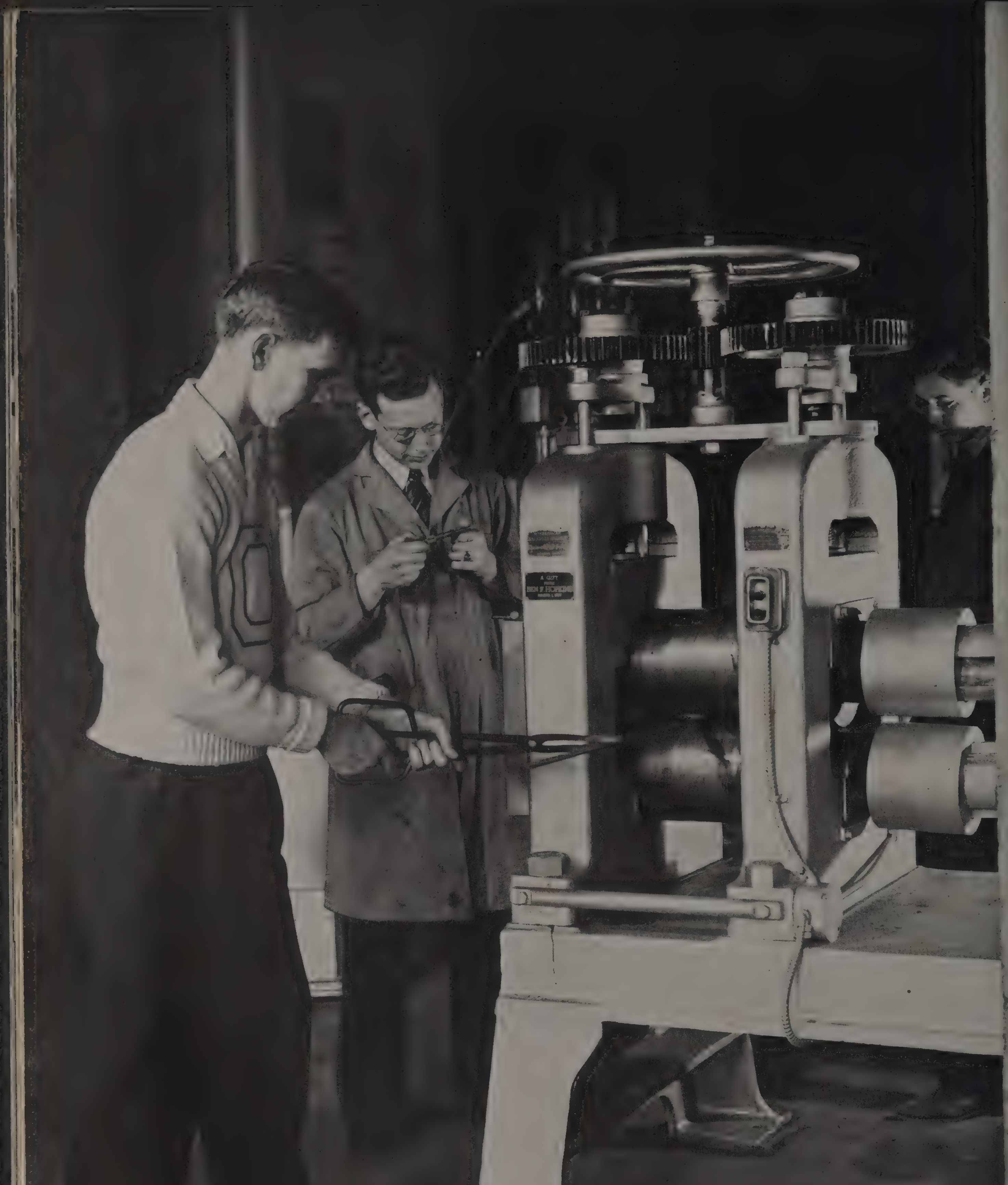
Left to Right, First Row: Friedman; Charpentier; Roberts; Gardiner; Phillips; Pasco.

Second Row: DiVencenzo; Bobula; English; Wetherald; Spandau; Rogge; Melick.

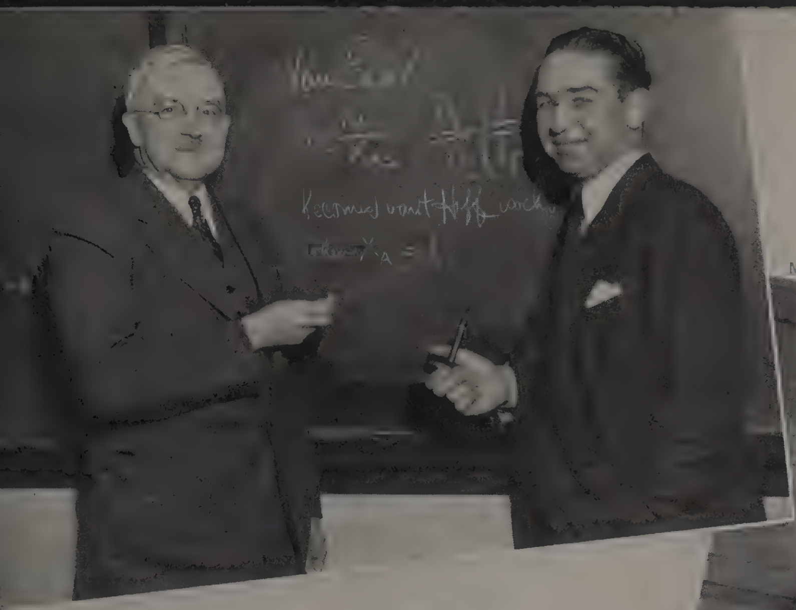
Third Row: Keller; Kojan; Gallup; Brown; Lackowski; Soper; Denton; Nexon.

Fourth Row: Hernecheck; Petras; Townam; Semon; Grader; Neidhart.

METALLURGICAL ENGINEERING


A GIFT

METALLURGICAL FACULTY



Dr. [illegible] Prof. [illegible]

Mr. Coffinberry [illegible]

Prof. Boylston

Prof. Donaldson
Mr. Cook
Mr. Culbertson
Mr. Burrows

C. ABRAMOVITS
Track; Pick and Shovel; A.I.M.E.; A.S.M.

C. G. ALLEN
Phi Pi Phi
A.S.M.; A.I.M.E.; Freshman Football; Fencing.

H. A. ANDERSEN
Phi Delta Theta
Football; Track; Tech; Pick and Shovel; A.I.M.E.; A.S.M.; Alumnus.

C. L. ANTHONY
Phi Delta Theta
Blue Key; Senate; Freshman Basketball; Tennis; Pick and Shovel; A.I.M.E.; A.S.M.

L. R. BAUMAN
Theta Kappa Psi
Pick and Shovel; A.I.M.E.; A.S.M.; Freshman Football; Interfraternity Council.

J. D. DUNBAR
Freshman Football; Pick and Shovel; A.S.M.; A.I.M.E.

E. DYBLE
Pick and Shovel; A.I.M.E.; A.S.M.

B. G. EGLIN
Beta Kappa
Tech; Differential; Pick and Shovel; Alumnus; Orchestra; A.I.M.E.; A.S.M.

J. F. ELLIOTT
Freshman Track; Pick and Shovel; A.I.M.E.; A.S.M.

J. F. ERTHAL
Beta Kappa
Pick and Shovel; A.I.M.E.; A. S. M.

M. J. FRANZEN
Football; Basketball; Pick and Shovel; A.S.M.; A.I.M.E.

J. W. HALLE
Pick and Shovel; A.I.M.E.; A.S.M.

R. B. HOPKINS
Phi Kappa Psi
Pick and Shovel; Senior Intramural Manager; Honor Key; Tech; Freshman Football; Basketball; Debate; A.I.M.E.

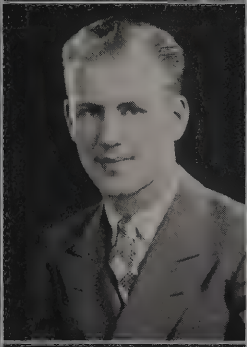
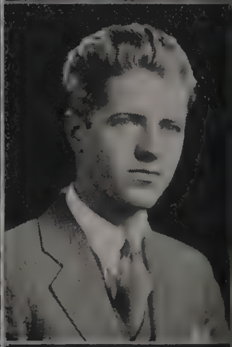
R. C. KASPER
Phi Kappa Tau
Pick and Shovel; A.I.M.E.; A.S.M.; A.S.S.T.

B. M. KUDZIUS
Pick and Shovel; A.I.M.E.; A.S.M.

G. Z. LADD
Swimming; Freshman Track; Pick and Shovel; A.I.M.E.; A.S.M.E.; News Service.

S. R. LYLE
Phi Delta Theta, President
Blue Key; Football; Basketball; Pick and Shovel; A.I.M.E.

R. H. MARSHALL
Phi Delta Theta
Glee Club; Pick and Shovel; A.I.M.E.; A.S.M.; Football; Swimming; Track.

SENIORS

S. B. MAURER
Phi Kappa Psi
Football; Interfraternity Council; Pick and Shovel; A.S.M.; A.I.M.E.

N. E. MERTZ
Theta Kappa Psi
Tech; News Service; Interfraternity Council; Differential; Pick and Shovel; A.I.M.E.; A.S.M.; Debate Club.

D. E. PERKINS
Phi Delta Theta
Pick and Shovel; A.I.M.E.; A.S.M.; Glee Club; Athletic Assoc.; Freshman Swimming.

M. E. ROSE
Phi Delta Theta
Pick and Shovel; A.S.M.; A.I.M.E.; Football.

R. P. SCHAUSS
Wrestling; Track; Cross Country; A.I.M.E.; A.S.M.; Pick and Shovel.

H. J. SCHINDLER
Pick and Shovel; A.S.M.; A.I.M.E.

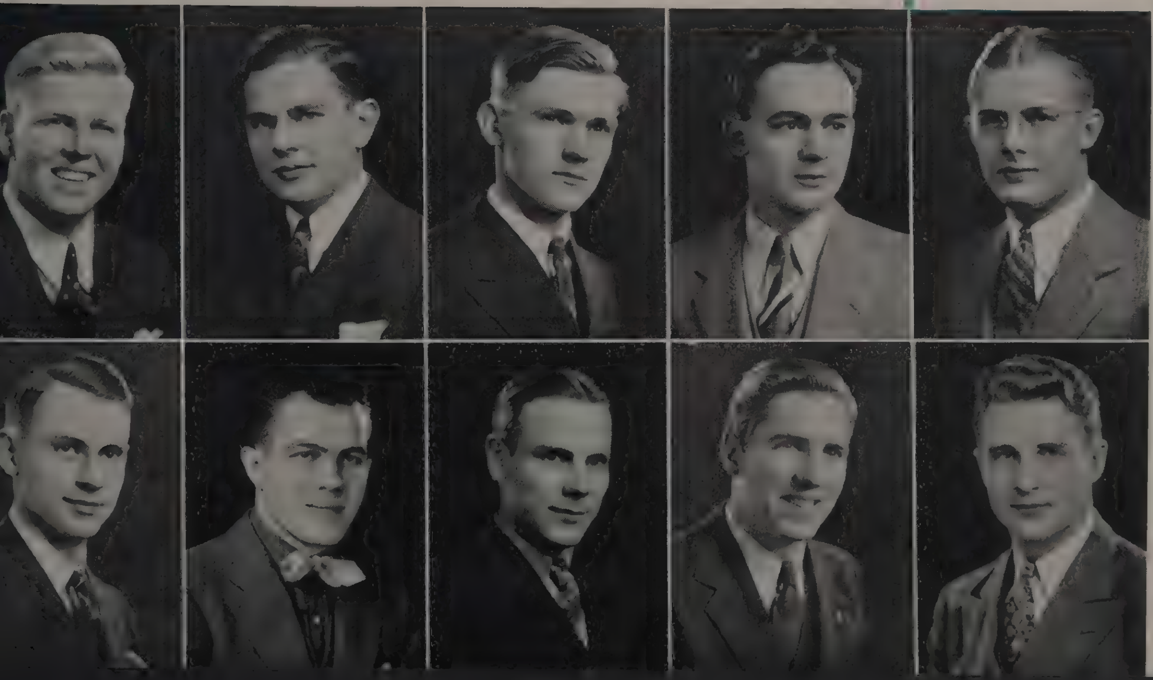
F. J. SEZEMSKY
Theta Kappa Psi
Freshman Football; Track; Cross Country; Pick and Shovel; A.I.M.E.; A.S.M.

G. T. SPARE
Pick and Shovel; A.I.M.E.; A.S.M.; Swimming.

W. R. VINCENT
Freshman Track; Pick and Shovel.

V. H. ZURAWSKI
Alpha Chi Sigma; Glee Club; Band; Orchestra; Football; A.I.M.E.; Pick and Shovel; A.S.M.; Freshman Wrestling.

Maurer Perkins Schauss Sezemsky Vincent
Mertz Rose Schindler Spare Zurawski



Nice weather for relaxation, n'est ce que pas? Bob Sutton.

Mr. Elliot, what is the book for?

Needham, DeFries, Fettu and Cerness. Four bums on the march or is it walk?

Lubahn, Neill, Trinter and Fiordalis are training to be dictators.

Wesleyan sure is a long way off isn't it, Wistar?

Pickelner and Phillips are still holding down their old posts.

Don't hit him so hard, Red. Schumar and Pekarek.

JUNIORS

Lally, Winslow, Angart and Quigley look happy, for no wonder, they have just finished their lunch.

Sorry to interrupt, boys, but we must get your picture. Omsbary, Olmsted and Phillips.

The stooges that have followed the camera man around provide amusement for McGee and Jacobs.

Farr has just called up his gal, and now Vitcha, Kraef and Watson are trying to find out all about her.

SOPHOMORES

Left to Right, First Row: Kelley; Dowling; Jory; Voss; LaMarche; Newell; Atwater.

Second Row: Kelley, Sibbison; Steffen; Hippler; Ohly; Garrison; Barber; Strickland.

Third Row: Tafarella; Protiva; Schanzlin; Schweitzer; Dull; MacMillan; Chapman; Kuenhold.

Fourth Row: Curtis; Hart; Tatousek; Walter; Klajbor; Hubbard; Vanas; Sanders; Hamilton; Kempton; Banker.

PHYSICS

PHYSICS FACULTY

Dr. Miller

Physics Faculty: Prof. Albright; Mr. Olsen; Mr. Tindal, Dr. Miller; Prof. Hodgman; Prof. Nusbaum; Prof. Shankland; Prof. Wallace

SENIOR PHYSICISTS

C. E. BARKALOW
Tau Beta Pi; Band; Orchestra; Gamma Phi; Math Club; Glee Club, Lambda Club.

J. R. DAWLEY, Jr.
Lambda Club; Glee Club; Astronomy Club; Freshman Swimming.

G. F. ROSE
Tau Beta Pi; Math Club; Tennis; Chess Club; Glee Club; Lambda Club; Freshman Fencing.

R. M. SCOTT
Phi Kappa Tau
Band; Fencing; Astronomy Club; Lambda Club.

D. WOLKOV
News Service; Math Club; Lambda Club.

Barkalow Dawley
Rose Scott
Wolkov

JUNIOR PHYSICISTS

Franks and Hickox have just been on that well known gauss hunt and are now resting in the usual manner.

Bungarda lives up to his reputation of "Let George do it."

The two mad physicists, Dan Zaffarano and Gil Klein, have found something amusing in the way their picture is being taken.

SOPHOMORES

Fitzwilliam

Wilson

Winkel

Dorris

Horvath

Gregg

CHEMICAL ENGINEERING

CHEMICAL ENGINEERING FACULTY

Dr. Hummell Prof. Whitacre Dr. Prutton
Prof. Arnold Prof. Braideck

Dr. Prutton

Mr. Finkelman Mr. Steinmetz Mr. Schutz
Mr. Thompson Mr. Hubbard Mr. Hart

Dr. Miller
Mr. Von Fisher
Dr. Drake
Mr. Schultz
Dr. Shelton
Mr. Schiebiy
Mr. Bowman

I. C. ATKINSON
Beta Theta Pi
Alpha Chi Sigma; A.I.Ch.E.; Case Tech.

W. L. BEEARS
A.I.Ch.E.

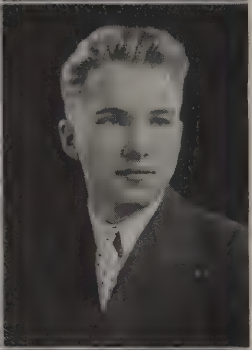
H. F. BETZ
Sigma Alpha Epsilon
Tau Beta Pi; Alpha Chi Sigma; Tech; News Service; Alumnus; A.I.Ch.E.

C. W. BLENKHORN
Alpha Chi Sigma; A.I.Ch.E.; Tech; American Chemical Society.

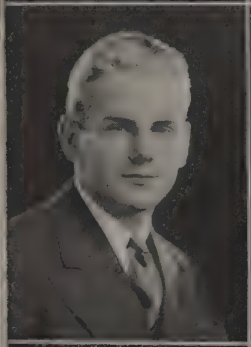
W. Y. BOW
A.I.Ch.E.

T. R. BRICK
Sigma Alpha Epsilon
Tennis; A.I.Ch.E.

E. J. CAPSTACK
Theta Kappa Psi



H. N. COTABISH
Zeta Psi
Alpha Chi Sigma; Glee Club Manager; Orchestra; Musical Club Manager; Tech; Differential; Freshman Track; Two Honor Keys.



H. P. DAVIS
Phi Pi Phi
Alpha Chi Sigma; A.I.Ch.E.; Track.

W. I. DENTON
Alpha Chi Sigma; Tennis; Frosh Football Mgr.; Swimming Mgr.

J. S. DILLON
Theta Kappa Psi
Alpha Chi Sigma; Tau Beta Pi; Case Tech; Debate Club; Differential; A.I.Ch.E.

I. B. FRIEDLAND
Pi Sigma Phi
Cheerleader; Basketball; A.I.Ch.E.

CHEMICAL ENGINEERING SENIORS

F. ORNSTEIN
Pi Sigma Phi
Case Tech; Differential; Band; Basketball; Interfraternity Council; A.I.Ch.E.

R. V. PERUZZI
Alpha Chi Sigma
Band; A.I.Ch.E.; Orchestra; Tech.

R. H. SENSEL
Freshman Track; Football; A.I.Ch.E.

T. H. SHONFELD
Phi Sigma Delta
Fencing.

J. C. STOLLMAYER
A.I.Ch.E.

E. J. THOMAS
Alpha Chi Sigma
A.I.Ch.E.

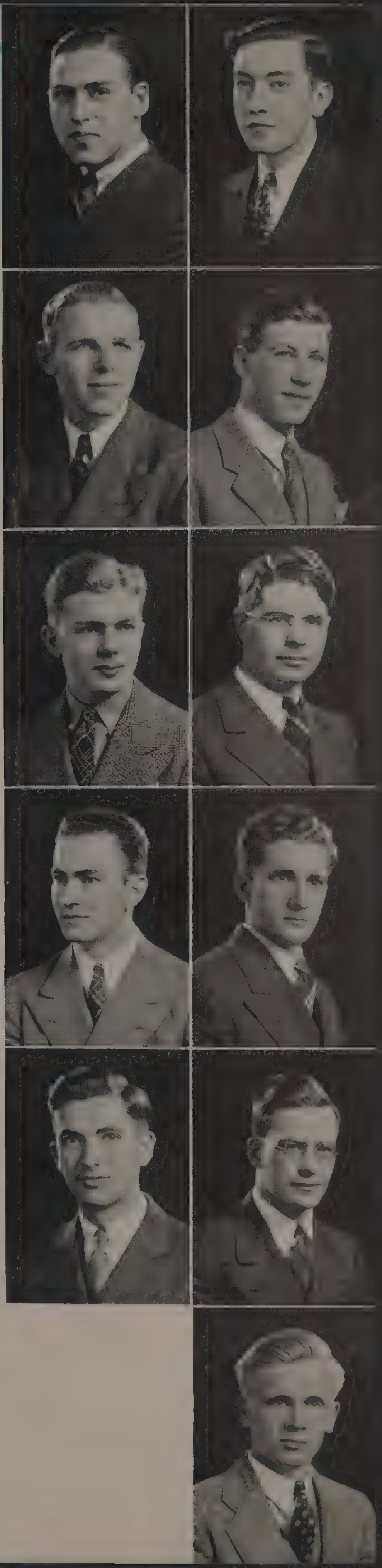
A. R. WEBBER
Sigma Nu
A.I.Ch.E. Cheerleader; Track.

A. S. WIDZER
Case Tech; A.I.Ch.E.

H. F. WIESE
Captain Tennis Team; A.I.Ch.E.

R. A. WILLIAMSON
Phi Kappa Tau
Freshman Swimming; Debate Club; A.I.Ch.E.

F. M. ZORN
Alpha Chi Sigma
Freshman Swimming; Glee Club; A.I.Ch.E.; Wrestling.



R. W. FRISCHMUTH
Sigma Alpha Epsilon
A.I.Ch.E.

R. D. HEIDENREICH
Alpha Chi Sigma
Key; Football; Senate.

E. M. HOUTS
Alpha Chi Sigma President; Football; Band; Tennis; A.I.Ch.E.

A. F. GUENTZLER
A.I.Ch.E.

C. R. KEIM
Beta Theta Pi
Tau Beta Pi; Alpha Chi Sigma; Blue Key; Honor Key; Editor Tech; Band; Drum Major; Differential; Alumnus; Wrestling; Orchestra; A.I.Ch.E.

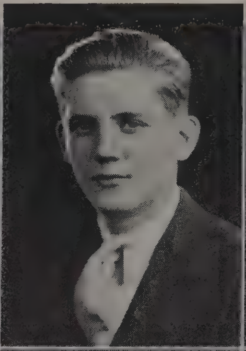
H. W. HOLKESVIG
Phi Kappa Psi
Alpha Chi Sigma; Blue Key; Football; Senate; A. I. Ch. E.

A. S. JONES
Alpha Chi Sigma; Honor Key; Band; Glee Club; Track; Wrestling; Orchestra: A.I.Ch.E.

M. F. KLOZAR
A.I.Ch.E.

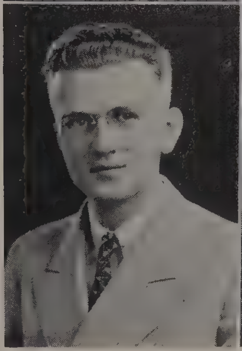
Frischmuth

Heidenreich



Houts

Keim



Guentzler

Holkesvig

Jones

Klozar

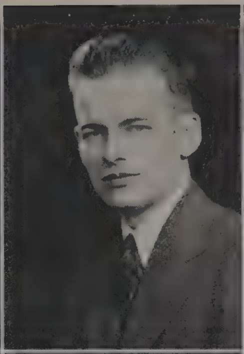
SENIORS

SENIORS

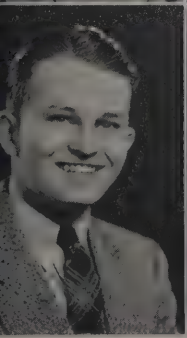
Kugler

Leader

Martin



Metzger



Kuhlman

Martens

Mayer

Michalsky

W. H. KUGLER
Glee Club.

R. M. LEADER
Phi Kappa Psi
Alpha Chi Sigma; Pres. Tau Beta Pi; Blue Key; Assoc. Editor Tech; Alumnus; Differential; Track; Glee Club; Honor Key.

J. B. MARTIN
Sigma Nu
Tau Beta Pi; Interfraternity Council; Gamma Phi; A.I.Ch.E.

W. D. KUHLMAN
Sigma Nu
Tau Beta Pi; Alpha Chi Sigma; Blue Key; Honor Key; Freshman Basketball; Basketball; Band; Tech; Glee Club; A.I.Ch.E.

G. H. METZGER
Sigma Alpha Epsilon
Freshman Football; Football; A.I.Ch.E.; Wrestling.

C. R. MARTENS
Band; Track; A. I. Ch. E.

R. H. MAYER
Sigma Alpha Epsilon
A.I.Ch.E.; Wrestling.

W. A. MICHALSKY
Alpha Chi Sigma
A.I.Ch.E.

JUNIORS

Schellentrager and Shoupe. By the way, Joe, stay out of Bill's pocket.
Lucht, the man with the potent nickname.

Can't say as we blame you for hanging out of that window, but after all think of the other men on the campus. Sharpe, Seaton and Bendel.

A rare view of the Case campus, and a not so rare view of Hartzell.

Lange, Fuller and Cottehrer pause at the sun dial in answer to our plaintive cry for pictures.

Gordon decided he could stand the lab no longer, and so came out for a bit of air.

Harlow, Dunn, Basl, Crawford, and Lally looking for an honest man.

Loretta puts in a plug for the chemistry department.

Nicolaides even tried to sell the cameraman some candy.

Van Vessem, Silsby, Vyhnalek, and Friedman. The four horsemen on their modern steed.

Wood, Mendolia, Swayze, and Hansen—four fugitives from an organic chain gang.

Dettman and Wolf were once talking together, but now look at them.

A rare view of the Case campus with Basl, Bettcher, and Karkau.

Prior, Conrad, and Pepper hurrying to quant lab.

Mose Snyder is blowing smoke rings, or trying hard anyhow.

Vogt explains the finer points of mumbley-peg to Zipf and Peters

Kopf upholds the tradition of the engineer and his pipe.

The Chemist's despair! This trio of Lacey, Backlund, and Selker can make any professor worry.

Cline and Meszaros are as sober as a judge. I'll bet they just came from seminar.

A little free advertising is given by Reilly and Friedman.

Bigelow, Klamm, Rahn, Hemker, Taylor talk over a weighty quant problem.

Devor and Melby appear to be interested in other matters.

JUNIORS

E I DU PONT DE NEMOURS & CO INC
GRASSELLI CHEMICALS DEPT.

SOPHOMORES

Left to Right, First Row: Scott; Koll; Findeisen; Feldmeyer; Roth; Siskin; Pasek.

Second Row: Hopkinson; Schrauf; Davidson; Kulow; Larsen; Balharrie; Tischler; Schmidt; Golrich.

Third Row: Zepp; Endlick; Bower; Gardner; Bulan; Muehlberg; Fuller; Stuhr; Schaffer, Friedel; Martin.

Fourth Row: Bemis; Smith; Straw; Bishop; Steinfeld; Schueman; Edgar; Randall; Christopherson; Bliss; Little; Slany.

Fifth Row: Crandall; Laurich; Culp; Brown; Fagnan; Keller; Denby; Naylor; Price; Brennan; Grasmehr.

Though a relatively small College, Case has one of the strongest Alumni Associations in the country. There are 4500 graduates and former students banded together in this organization, whose purpose is to promote the best interests of Case and the welfare and mutual interests of every alumnus.

Organized into twenty-two Case Clubs throughout the United States the actual government of the Association is vested in an executive council of 24 officers and directors and all past presidents. Its official headquarters are in the Warner Building on the campus. The staff of the office is composed of Alumni Secretary, Charles F. Chapman and his assistants, Helen D. Borsch and Marguerite Meyer.

Outstanding activities of the Association include the CASE ALUMNUS, for seven consecutive years a national prize winner, Van Horn Alumni Scholarships, Fraternity Scholarship trophy, Football banquet, Founder's Day Case Club meetings, Reunion, "Les" Bale Award, Class organizations and Meritorious Service Awards.

Just as the best monument of a man is some lasting benefit which he has conferred upon his fellow-beings, so the best measure of a college is the collective service of its alumni.

The Senior Class of 1938 adds another strong link in this ever extending chain of Case men.

ALUMNI ASSOCIATION

PHYSICAL EDUCATION

Harry Robert Kyr, B.A., Cleveland College.
Claude Boynton Sharer, Jr., B.S., Ohio Northern.
Dr. Chambers, Ph.B., Denison U.; M.D., Western Reserve U.
Norman Stanley Allmen, B.S., Case.
Ray A. Ride, B.S., Washington and Jefferson.
C. L. Eddy, B.S., University of Illinois; C.E., University of Illinois.
Joseph Jefferson Carlin, B.S., Washington and Jefferson.

SOCIAL STUDIES

Stanton Ling Davis, Professor of History, B.A., U. of Pittsburgh; M.A., U. of Pennsylvania.

Frank Tracy Carlton, Professor of Economics, B.S., M.E., Case; M,A., Ph.D., Wisconsin.

George William Sanford, Assistant Professor of Economics, B.S., M.A., and Ph.D., U. of Illinois.

Arvel Benjamin Erickson, Associate in History, B.S., U. of Minnesota; M.A., U. of Washington.

LITERATURE AND LANGUAGES

William Eckhard Umbach, Instructor in Modern Languages, A.B., Denison; M.A., U. of Michigan.

Robert LeFevre Shurter, Assistant Professor of English, B.A., Amherst; M.A., Columbia.

Lewis Rockmore Lowe, Assistant Professor of English, B.A., Oberlin; M.A., Illinois.

Karl Owen Thompson, Professor of English, B.A., Amherst; M.A., Olivet.

Herbert Robinson Young, Associate Professor of English, Ph.B., Denison; M.A., Columbia.

Bertil Gustaf Fredrik Sima, Instructor in Foreign Languages, B.A., Stockholm Experimental College; M.A., College of Commerce, Leipzig; Ph.D., U. of Leipzig, Germany.

MATHEMATICS AND ASTRONOMY

Theodore Moses Focke, Dean, Professor of Mathematics, B.S., Case; Ph.D., U. of Goettingen.

Charles Frank Thomas, Professor of Mathematics, A.B., Amherst; M.S., Case.

Max Morris, Associate Professor of Mathematics, B.S., Akron U.; M.S., Harvard; Ph.D., U. of Chicago.

Edward Martin Justin, Assistant Professor of Mathematics, B.S. and M.S., Case.

Orley Edward Brown, Assistant Professor of Mathematics, B.S. and M.S., Iowa U.; Ph.D., U. of Chicago.

Richard Stevens Burington, Assistant Professor of Mathematics, B.A., M.A., Ph.D., Ohio State University.

Charles Chapman Torrance, Instructor in Mathematics, M.E., M.A., and Ph.D., Cornell.

Robert Fross Rinehart, Instructor in Mathematics, A.B., Wittenberg; M.A., Ohio State; Ph.D., O. S. U.

Norman Sheridan Risley, Associate in Mathematics, B.S., Case.

Jason John Nassau, Professor of Astronomy, C.E., M.S., Ph.D., Syracuse U.

Sidney McCuskey, Assistant Professor of Mathematics and Astronomy, B.S., Case; M.S., M. I. T.

MECHANICS AND HYDRAULICS

Raymond Hewes Danforth, Professor of Mechanics and Hydraulics, B.S., M. I. T.; M.E., Case.

Harry Deward Churchill, Associate Professor of Mechanics, M.S., C.E., Case.

Winston Mansfield Dudley, Instructor in Applied Mechanics, B.S., Swarthmore; M.S., U. of Michigan.

Frank William Disch, Instructor in Mechanics and Materials, M.E., Stevens Institute of Tech.

Albert Henry Spehek, Assistant in Mechanics and Materials, B.S., Case.

William Affleck Wolfe, Assistant in Mechanics and Materials, B.A., B.S., U. of British Columbia.

DRAWING

Charles William Coppersmith, Associate Professor of Engineering Drawing, B.S. and M.E., Case.

Oliver Marlow Stone, Assistant Professor of Engineering Drawing, B.A., Ohio State; M.S., Case.

Willard Eugene Nudd, Assistant Professor of Engineering Drawing, B.S., New Hampshire U.; M.S. Case.

Gerald Summers Quinn, Instructor in Engineering Drawing, M.E., U. of Akron.

William Allen Lynam, Instructor in Mechanical Engineering, B.S., Northwestern U.

Robert J. Neville

SENIOR CLASS HISTORY

The end of the trail has been reached. Work, joy, sorrow and apprehension have all held sway in the hearts of the stalwart men of our class of 1938. Some hopes, conceived in the freshman year, have been realized, others have been thwarted. Many of the class have fallen by the wayside, but those surviving the "wiles" of the profs and the "pitfalls" of education have emerged the better for them, to enter a heartless and ruthless world. But the class does not beard the lion unarmed, for it has its many friends and an education second to none.

The freshman year with its shocking divulgence that college was to be no snap; with its bag rush, first college football game, and the surveying camp will long be remembered as a year of note. The sophomore and junior years came and went all too quickly leaving pleasant memories and a contribution to our education. The senior year—we were the "bigshots" of the campus that we had timidly trodden three years previously. All these thoughts pass in retrospect, and it is these memories, dear to Case men, that make parting difficult, however, they are enhanced by the knowledge that ours was a class of honor, merit and distinction.

William E. Pepper

JUNIOR CLASS HISTORY

With the thought of one more year of school ever-present, the junior looks back over the past year with mingled feelings of regret and pleasure. He thinks with regret of the grades he could have made if he had worked a little harder—balanced by the thought of lucky breaks he got on other grades.

With bitter feelings he remembers another cold Thanksgiving day and another defeat at the hands of Reserve. But with characteristic optimism he looks forward to next year's game.

Much has happened in the past year which the junior would like to live over again. He will always carry with him the memories of his inspection trip, the hours of trudging, looking, and listening all day, and of spending nights painting towns a light shade of crimson.

Another highlight in the college career of the junior was the Prom, the night when he forgot his slide rule and books, put away his leather jacket, and assumed the guise of a gentleman. That occasion will not soon be forgotten.

As each successive school year leaves its imprint upon the students who have passed through it, so did the junior year help to mold the class of 1939 into real Case men.

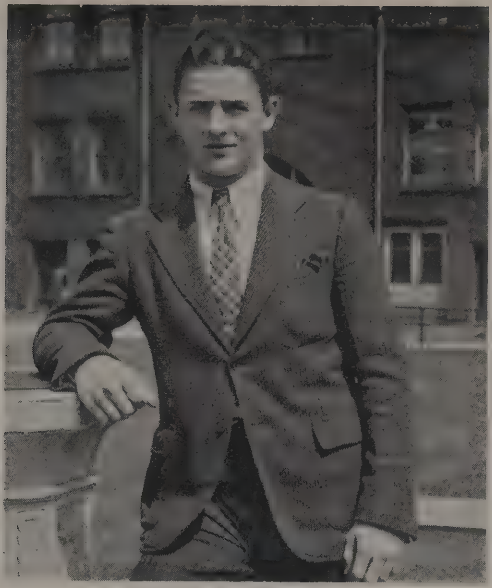
Paul J. La Marche

SOPHOMORE CLASS HISTORY

After nine months of attempting to discover what Case is all about, we, the class of '40 made the last trip (to be made by Case freshmen) to the well-known vicinity of Waynesburg, Ohio. Here we gave the hills and vales the last going over during a very wet three weeks. During the remainder of the summer vacation some of us were lucky enough to find work, others of us, who couldn't bear to be absent from Case, returned to continue our Freshman studies; and still others of us merely passed the time until registration on Sept. 18.

When at last we returned as haughty and possibly a little more intelligent Sophomores, we came only to suffer a lowly and altogether humiliating defeat, at the hands of an unruly mob of Freshmen in the traditional bag-rush. It didn't matter that they outnumbered us two to one. In due time, however, the injury to our pride was forgotten and the Freshmen were vigorously and somewhat painfully instructed the mannerisms of a good Case man.

During this, our Sophomore year, we have become active members and leaders of almost every campus activity. We have learned better on how to deal with such trifles as lab. reports and how to regulate our sleep in Physics lectures. Now, as we approach the half-way mark of our education as engineers, we look forward to a much-needed vacation and to our promotion into the Junior class.



Jack H. Eichler

FRESHMAN CLASS HISTORY

College was first made a reality to us on that morning of September when school was officially opened by our president Dr. Wickenden. Registration of ours, the largest class ever enrolled at Case, meant meeting more of our class and teachers. Our first week started out with the freshman assembly, continued with placement exams, and was climaxed by the freshman banquet. New faces, new subjects, new impressions,—yes, college was different.

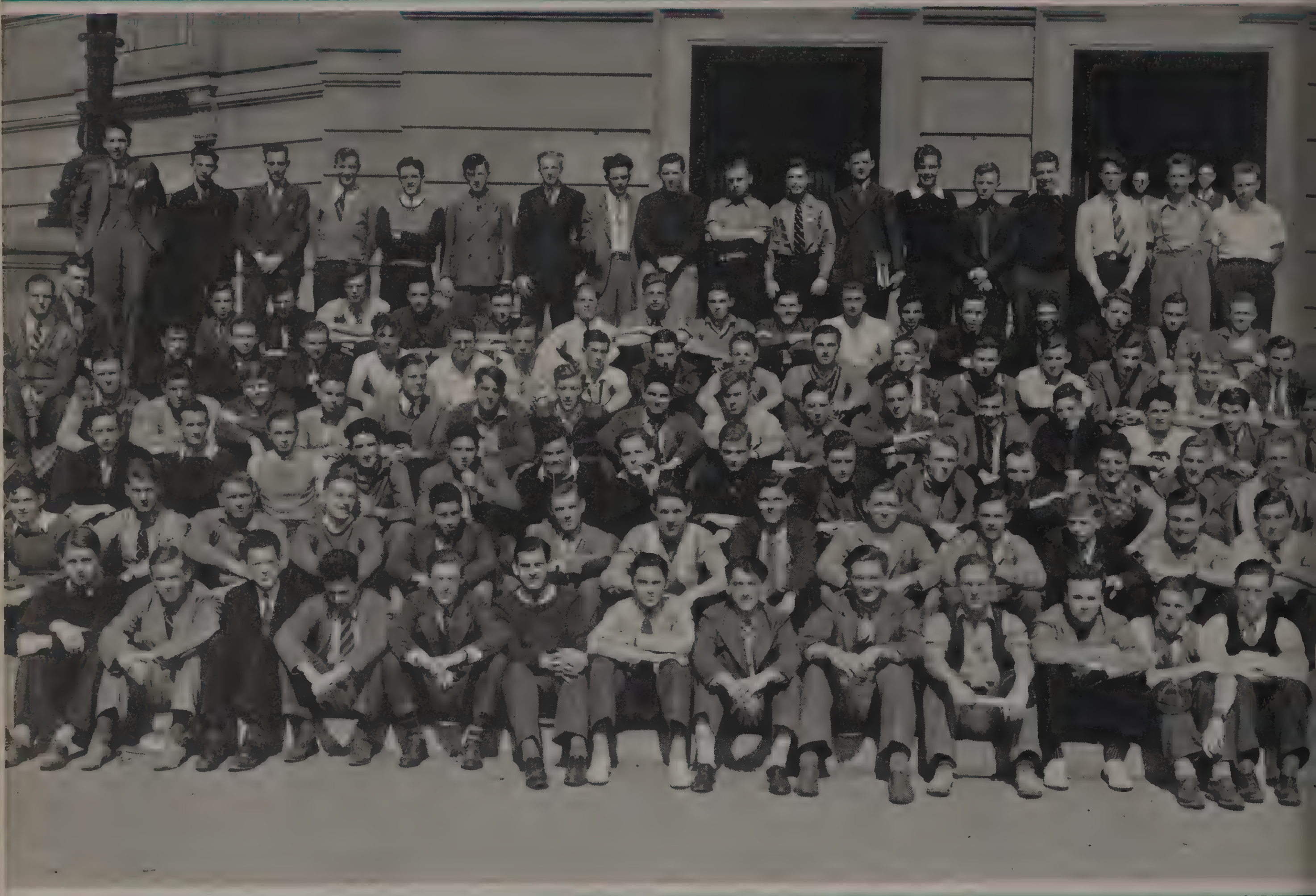
Despite the fact that we won the bag rush, we were made to wear our freshman caps until the traditional Case-Reserve battle closed the football season. Upperclassmen, under the leadership of Blue Key, saw to it that we learned our songs. The base drum soon became a familiar and welcome sound.

But as fall faded away, schoolwork became more and more impressive. Climbing four flights of stairs, the crowded drawing rooms on Saturdays, the chemistry labs and lectures and our first final exams all impressed on us the fact that Case was no play school.

Mid-semester vacation, fraternity initiations, the new semester, all helped to start us again so that now with spring well on its way, life again comes back to the Case campus. Being the class to initiate the new Freshman Camp holds something original in store for us in a short time.

The class as a whole is a well rounded group of boys for we have both athletes and scholars. Many of the varsity squads will depend upon the class of 1941 for future varsity material and we undoubtedly have our share of Tau Betes. We know our way as Casemen, so keep your eye on the class of '41.

Freshmen



Left to Right

First Row: Obenchain, Nord, Ott, Wilson, E. A. Meyers, Madsen, Green, Kovelan, Koch, Butler, J. M. Fox, Parnin, Cowles.

Second Row: Spisak, Nurnberger, Albrecht, Donovan, Benjamin, Kress, W. G. Fox, Luther, Knuff, Hill, F. J. Meyer, Duncan, Mantey. ,

Third Row: Pettepiece, Cadwallader, Heberding, English, Cordes, Regan, Dillon, Husted, Patton, Hess, Stuckey, Leidich, Veigel, Hover. ,

Fourth Row: Heckman, Flucke, H. L. Kennedy, Reeves, Scheutzow, Susz, Thurston, Harper, O'Neill, Morse, J. R. Wood, Levy, Kaufman, Katz, Gogolick, Collins.

Fifth Row: Edwards, Hagedorn, Schwartz, Somerwill, Poremba, Higgins, Quigley, Zucker, White, Pugh, Zimmerman, Heine, Wahl, Birmingham, Sacha, Johnson, Graham.

Sixth Row: Mueller, Brashear, W. H. Morrison, Allen, Strawn, Knepper, Sorber, Aspman, Barclay, Linke, Pearn, Valentini, Maloney, Seal, Smith, Taylor, Larer.

Seventh Row: Landers, Klein, Tae, Meyer, Stone, Yoost, Keska, Obrig, Flowers, Cachat, Andrew, Sesock, Huntley, Beutel, Shafer, Greenwood, Hanna, Curtis.

Class of '41

Left to Right:

First Row: Brooks, Morrison, Samerdyke, Hammer, Quittner, Riley, Renn, Barth, Resnik, Miller, Buettner, Yohalem, Elsby.

Second Row: Cieslik, Bork, Lev, Van Horn, Derhammer, Farr, Lynch, Davis, Hall, Wood, Wissman, Harris, Johns, Glickman, Mitchell.

Third Row: Gable, Harich, Sherb, Sibisan, Bacaintan, Ruppe, Reske, Wait, Herter, May, Michel, Wiseman.

Fourth Row: Ehrhardt, Boland, Nevin, Hollopetre, Lampe, Sandora, Meyer, Yarham, Klitz, Dugar, Collaros, Foster, Mathers, Howson, Robin, West, Benson.

Fifth Row: Beatty, Hanson, Wilkinson, Jones, Merriam, Swain, Melcher, Sheekley, Vinton, Beckwith, Schwary, Hook, Howard, Erikson, Drechsler.

Sixth Row: Fisher, Eichler, Spindler, Williams, Buehler, Brasington, Katicos, Gunselman, Schalla, Benson, Brosta, Foldy, Shipley, Ponstingl, Ebert, Arms, Foulks.

Seventh Row: Epstein, Robb, Monti, Abbey, Oatis, Lloyd, Traupe, Bell, Sunshine, Ambrose, Goetz.

Eighth Row: Alexander, Dougherty, Knepper, Kaercher, Schager, Maursky, Fischley, Moorehouse, Green, Edwards, Finn, Romilly, Hauser, Bedell, Barre, Phelps, Mainey.

51
71
4

C

THREE ELEMENT
OSCILLOGRAPH

ATHLETIC ASSOCIATION

First Row: Neely, Prof. Putnam, Horsburgh, Prof. Eddy, Reiminschneider.
Second Row: Perkins, Graham, Feazel, Markley.

The chief duty of the Athletic Association is to direct the major and minor sports at Case. This has been vary ably done under the excellent leadership of the President, Professor C. L. Eddy. The association not only is responsible for this, but they also must manage the preparations for all athletic contests, handle the ticket sales, award letters and other recognition of athletic abilities, and have charge of all athletic expenditures. The association derives its finances from the student activity fees and ticket sales of various games. It is entirely independent of financial backing from the school.

The Athletic Association consists of two faculty members, Professors Eddy and Putnum, and eight seniors. The faculty members act as president, financial secretary, and treasurer. The student members are chosen on the basis of their interest, ability, initiative and leadership when trying out during their junior year, and are appointed to the association at the end of the try-out period.

CHEER LEADERS

All right gang! Let's give a big hoo-rah! A big hoo-rah! Nine hundred lusty voices echo the yell across Van Horn Field. Leading them in rhythmic beat are three white-clad figures whose every motions are followed by nine hundred pairs of eyes. Yes, cheerleading has become an indispensible feature at every Case athletic contest.

This year's staff consisted of Bud Friedland, head cheer leader, and Bob Rock, Bill Keller, assistants. Ably coached by Friedland, they made a very commendable record of performances. This year's undying enthusiasm has set a mark which will be difficult to surpass.

FOOTBALL COACHES

As Associate Professor of Physical Education and head football coach, Ray Ride virtually dictates Case's destinies in the field of sports. A three letter man in football at Washington and Jefferson, Ray has been at Case since 1930. It was during his first year as coach that the papers christened his proteges with a name that has stuck—the Rough Riders. This year Ray was again assisted in his work by Jeff Carlin, the head basketball mentor and back-field football coach who is also a Washington and Jefferson graduate, and Stan Allmen, a former Rough Rider.

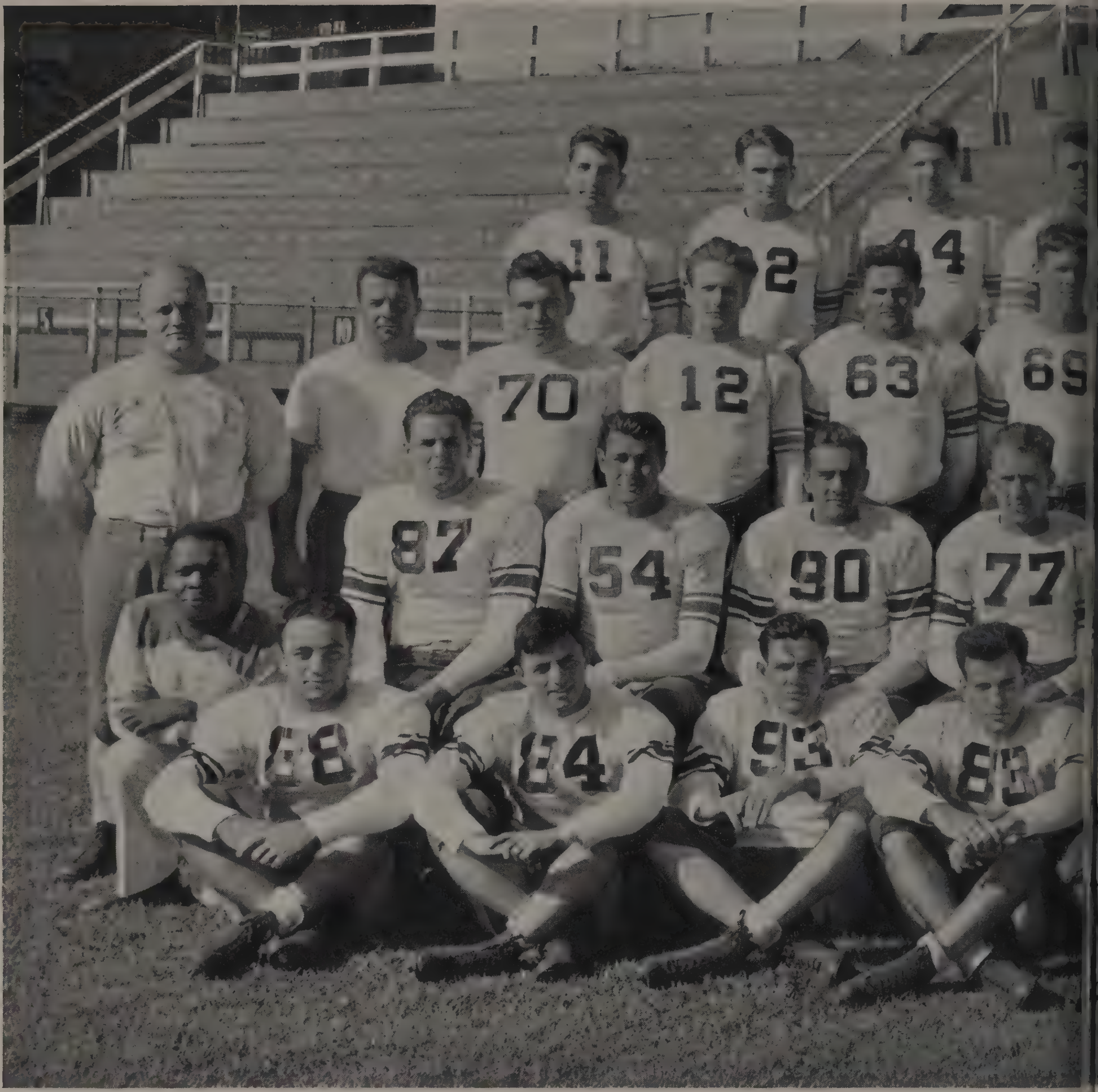
Left to Right

Allmen, freshman coach.

Ride, football coach and Athletic Director.

Carlin, asst. coach.

Dr. Rees, trainer.


11
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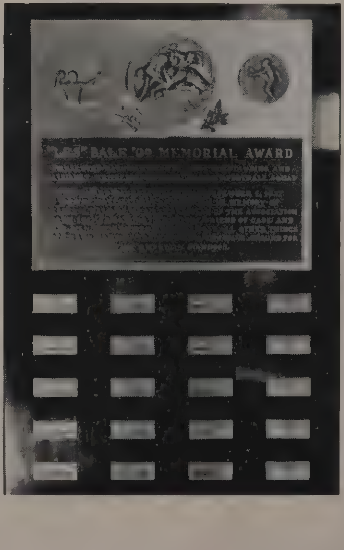
44
70
12
63
69
87
54
90
77
68
84
93
83

Front Row: Fiordalis, Holkesvig, Weiss, Schweitzer.
Second Row: Asst. Trainer Johnson, Zentgraf, Marshall, Anderson, Franzen.
Third Row: Freshman Coach Allmen, Asst. Coach Carlin, Schanzlin, Watson, Vanas, Byers.
Fourth Row: Vanderhoof, Read, Wallace, J. Voss.

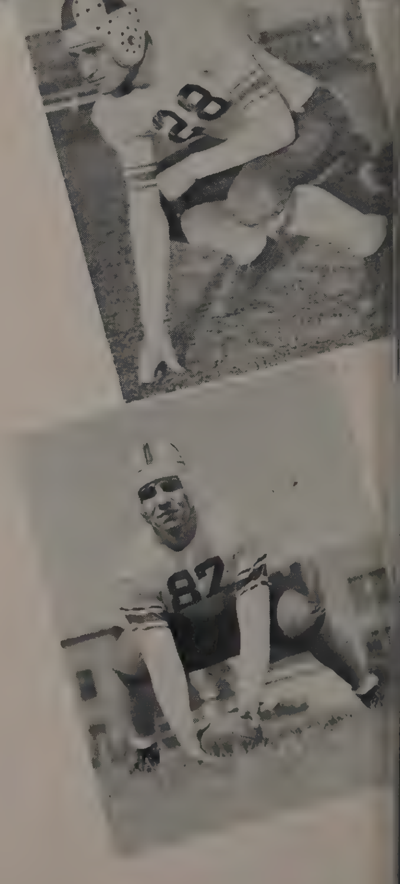

MEMORIAL AWARD

Awarded to
Ray James Mlckovsky

First Row: Kalal, Denton, Wistar, Maurer, Nason, Lyle.
Second Row: Mlckovsky, Hart, Klajbor, Hornke, D. Voss, Rose, Dr. W. E. Rees, Trainer.
Third Row: Walter, Dull, Carlson, Schuneman, Spangenberg, Rogel, Head Coach Ray Ride.
Fourth Row: Schueren, Kronbach, Spatz, Schumar, MacKay.

SUMMARY

Case	14	Lehigh	7
Case	20	Capitol	0
Case	12	Wooster	7
Case	21	Cincinnati	0
Case	19	John Carroll	0
Case	13	Miami	13
Case	0	B-W	13
Case	43	Oberlin	0
Case	0	Reserve	6



Mlckovsky, Nason, Anderson, Jeffries, Hornkey, Lyle, Voss

LEHIGH

Passing their way to a 14-7 victory in the inaugural game of the 1937 season, Case evened the series with the Bethlehem warriors at one-all. 'Ramming' Ray Mlckovsky's passing proved too much for the aggressive Pennsylvanians to handle. The first tally for Case came in the initial period with a 20-yard pass from Mlckovsky to Al Nason in the end zone. Again in the second period, Ray uncorked a 39-yard heave to Herm Weiss on the 5-yard stripe, that led to a second touchdown. Lehigh's lone touchdown came early in the third period on an intercepted Case pass. The game, which was played on the Lehigh gridiron, then developed into a punting duel with Matt Franzen keeping the ball deep in Lehigh territory until the final gun sounded.

CAPITOL

Playing their first game on home ground, the Rough Riders vanquished a stubborn Capitol squad by a 20-0 score. Casey's gridmen garnered two of their three touchdowns early in the first quarter, running rampant over a disorganized Capitol line. Mlckovsky lateraled to Franzen on the 8-yard line, and Franzen skirted left end, crossing the goal line untouched. Hart's placement for the extra point was wide. The same play netted another touchdown a few minutes later, and this time the try for extra point was good. The Lutheran line then tightened up and held until the early minutes of the final quarter, when superb blocking enabled the Rider backfield to march from midfield to the goal in an uninterrupted drive. Hart's placement was good.

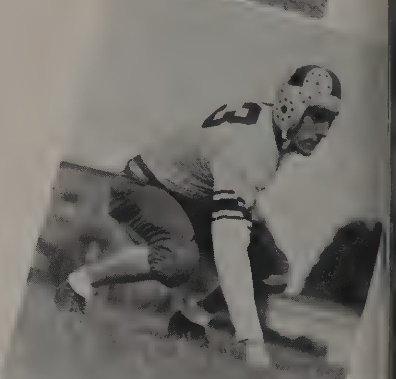
WOOSTER

The Rough Riders rode to their third straight victory with the Scots of Wooster as the victim. Art Schweitzer, sophomore back, paved the way for the Scientists' first score by intercepting a Wooster aerial late in the starting period, and returning the ball to midfield. A pass from Mlckovsky to Schweitzer scored the initial touchdown. In the middle of the second period, the Riders inaugurated an invasion into enemy territory which netted them another six points. Wooster then took Case's kick-off on their own 33-yard line, held the ball for a few plays, and finally scored at the end of the half on a long cross-field aerial. The game ended with Case on top by a 12-7 score.

CINCINNATI

In their first night game, Case rolled over the Bearcats of Cincinnati for their fourth straight victory, 21-0. The opening kickoff provided a thrill when Joe Popov, Bearcat fullback, ran the ball back 70 yards before being downed. This threat was ended when Don Voss, soph center, intercepted a Cincy pass. From then on until the final gun sounded, the Rough Riders had it much their own way. Case played most of the game in the air and scored the first touchdown on a pass from Mlckovsky to "Tex" Klajbor. The second score came after a series of razzle-dazzle plays involving many laterals, and concluded when Franzen chalked up the marker on a reverse around end. The final score came late in the third period as a result of another completed pass.

Franzen, Kalal, Holkesvig, Carlson, Spangenberg, Schueren, Rose



JOHN CARROLL

Trampling John Carroll in the mud at Van Horn Field, Case scored its only Big Four victory to the tune of 19-0. Bill Schweitzer scored the initial touchdown from the two-yard line. The next score came after 'Ramming Ray' intercepted a Carroll pass and ran 42 yards unmolested for the touchdown. In the first play of the fourth period, Mlckovsky heaved a long pass to Klajbor who in turn lateraled the ball to Dave Wistar, junior halfback. Wistar streaked the remaining distance to the goal line, and Chuck Hart added the extra point to conclude the scoring for the day.

MIAMI

Twice coming from behind, the Rough Riders fought a determined band of Redskins at Miami to a 13-13 standstill. Miami scored in the first quarter and Case retaliated three plays later with a score. Midway in the second period Miami pushed over another touchdown and the score stood at 13-6. The Riders had to fight on without the services of fullback Ray Mlckovsky, who was injured earlier in the game. In the final stanza, the Riders took to the airways and finally scored on a run around end. Matt Franzen, who was injured two plays before, booted the extra point. A Case touchdown was called back with two minutes left to play, and the game ended at 13 all.

Hart, Dull, Denton, Weiss, Schweitzer, Schuneman, Wistar

99
83
83
81
80

Maltrer, Fiordalis, Marshall, Voss, Vanas, Zentgraf, Kaljbor

BALDWIN-WALLACE

Losing their first game in seven starts, the Rough Riders dropped a hard fought battle to the Yellow Jackets of Berea by a 13-0 score. Despite the fact that the Engineers were without the services of Ray Mlckovsky and several other players, who were hurt the week before, the Riders both outgained and outpassed the Wattsmen. Case began a march down the field in the first period which was halted on the ½ yard stripe. Again in the fourth period the Riders threatened, but lost the ball on an intercepted pass. B-W scored both times on plays set up by the Jackets' aerial circus.

OBERLIN

Rolling up the largest score ever seen in a Case-Oberlin contest, the Rough Riders rode over the Yeomen by a score of 43-0. Every available man on the Brown and White squad saw action in the game. The first quarter found poor offensive play wrecking all chances for a score, but the fireworks started with the opening of the second period. The Engineers scored twice before the half, rang up four touchdowns in the third period, and annexed a seventh tally early in the final quarter.

CASE-RESERVE GAME

The forty-fifth Case-Reserve kickoff saw one of the worst fields in the history of that classic battle. Frozen solid at the opening gun, it had turned into a muddy morass by the middle of the first quarter making it almost impossible for the seventeen thousand spectators to tell the teams apart.

From the start it was evident that neither squad would be satisfied with anything short of victory. The first and second quarters went by scoreless. With the second-half kickoff, the Riders began a vicious and well timed offensive using every trick in the bag as they made a bold bid for victory. However the third period went by without a tally and the game seemed doomed to a scoreless tie.

Finally with three minutes left to play, the break for which each team had been waiting came—to Reserve. Stopped on the fifty yard marker, Case's all-Ohio fullback Ray Mlckovsky flipped a lateral to Bill Schweitzer. Johnny Wilson, Red Cat end, reached up, gathered in that ball and headed for the goal line. Sherm Lyle of Case made a desperate attempt to reach him from the other side of the field, but it was too late. The game ended in a furious volley of passes.

When the shouting was over, the statistics showed that Casey had out passed, out rushed, and out kicked the Red Cats but the horseshoe was on the other side of the fence.

FRESHMAN FOOTBALL

This year's freshman football team is one of the finest yearling teams Case has had in many years. The class of '41 has not only produced an abundance of backfield men of unusual speed and natural ball-handling ability, but a fast, hard-charging line of a calibre uncommon to first year men.

The yearlings' activities during the two months of daily practices consisted of scrimmages against the varsity, drilling in the fundamentals of the sport, and one non-contest game in which the Case freshmen spanked the Carroll frosh to the tune of 26-0.

The following freshmen were awarded their numerals: D. Albrecht, R. J. Barclay, H. G. Cordes, J. H. Eichler, C. M. Fluke, J. B. Gifford, S. Greenwood, R. E. Halloran, W. R. Heckman, R. H. Higgins, G. E. Johnson, G. K. McCord, R. B. Michel, P. Nurnberger, J. H. Oatis, J. Poremba, J. Roberts, J. Shafer, A. Schupska, J. F. Strawn, R. T. Susz, W. H. Waite, and L. J. Sinnott.

First Row: Fox, Merriman, Snook, Mueller, Dugar, Pugh, Collins, Lampe, Gifford.

Second Row: Eichler, Greenwood, Suez, Fluke, Albrecht, Poremba, McCord, Higgins, Shaffer, Farr, Cordias.

Third Row: Barclay, Roberts, Oatis, Michaels, Wait, Hertzberger, Deems, Flowers, Donovan, Katz, Ambrose, Freshman Coach Allman.

Fourth Row: Alexander, Luther, Johnson, Sinnott, Strawn, Zimmerman, Brasington, Nurmberger.

Basketball

'37-'38 SEASON

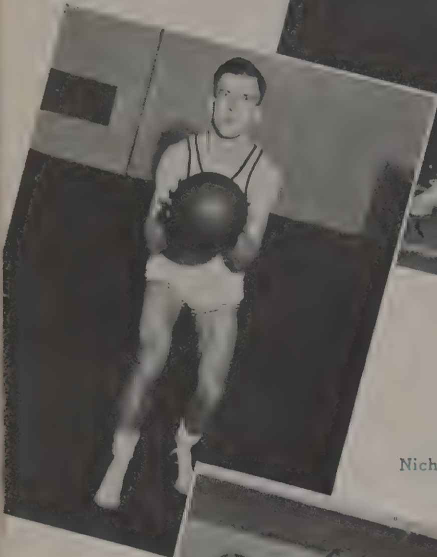
The Rough Riders' basketball record, while not as commendable as that made last year, was still rather successful. In fourteen starts Case lost seven games, only two of which were to Big Four Colleges. Coach Jeff Carlin deserves a great deal of credit for his good work; we of Case are proud of our coach and our team.

The Rough Riders were able to start their 1937-38 basketball season with four standbys of last season, Sherm Lyle at center, Ray Mickovsky and Herm Weiss as guards, and Arnie Hayman at forward. In the remaining position Coach Jeff Carlin used Arthur "Bill" Schweitzer, Tom Nicholl, and Gene Walter, depending upon the opposition and the extent of the injuries or ineligibilities which plagued the team throughout the season.

Before gaining their full momentum, Casey's engineers fell before B-W, losing by the score of 38-32. Marietta became the first victim, when Carlin's boys hung up an overtime victory of 50-47. Following the Marietta game, the Rough Riders lost to Michigan State 48-34 and won their first Big Four game vanquishing Carroll 37-27. Then came two losses, one to Mount Union 52-48 and the other to Washington and Jefferson 57-42. In the next battle, the Red Cats from across the fence were defeated 46-44, this making Case the only Ohio College to hold a victory over W. R. U. In beating an Ohio Conference team, the fans were treated to one of the most exciting games of the season, as Case nosed out Muskingum 41-40.

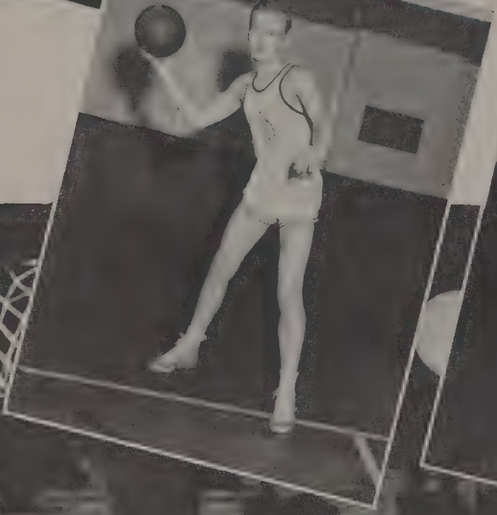
Franzen

Schweitzer



Next came Frascella and company who proceeded to give Wooster a 61-51 victory over the [illegible] and the [illegible] proceeded to demonstrate what [illegible] victory. Our traditional rival, Oberlin, was the next team to fall before the [illegible] of the [illegible] Raiders, when they dropped a 45-31 encounter.

Nicholl



Lyle

Mickovsky

[illegible] next [illegible] of 11 but [illegible] the Big Four [illegible] with [illegible] game to play. The [illegible] Ohio U. then [illegible] tested battle [illegible] to [illegible] the [illegible] of the 1937-38 season. Carroll dropped a [illegible] decision to W. R. U. [illegible] the time of [illegible] the possession of the Big Four championship [illegible] has not been settled.

Walter

Weiss

Kalal

Schueren

Haynam

4
CARROLL 12

SUMMARY

Case	32	Baldwin-Wallace	38
Case	40	Marietta	47
Case	34	Michigan State	48
Case	37	John Carroll	27
Case	48	Mount Union	52
Case	42	Washington and Jefferson	57
Case	46	Western Reserve	44
Case	41	Muskingum	40
Case	51	Wooster	61
Case	31	Baldwin-Wallace	24
Case	45	Oberlin	36
Case	47	John Carroll	41
Case	42	Ohio University	46
Case	36	Western Reserve	44

FRESHMAN BASKETBALL

Having produced one of the strongest all around squads in recent years, Coach Stan Allmen has obviated any fears of the Coaching Staff as to the potential varsity squad material. Since no practice games of any importance had been scheduled for the Freshmen bucketeers, their activities of the season consisted of being coached in the fundamentals of the game and scrimmaging with the varsity squad.

This year, thirteen basketball numerals were awarded to first year men. Many of these players will take an active part in the varsity games of next year, replacing the positions left by Sherm Lyle, Ray Mlckovsky, Ed Scheuren, and Matt Franzen. They are: S. Greenwood, W. Heckman, G. McCord, J. Shafer, E. Abbey, W. Moore, B. Fischley, R. Flowers, R. Slater, R. Barth, A. Schupska, R. Halloran and R. Snook.

First Row: Halloran, Slater, Snook, Moore, Flowers.
Second Row: Shafer, Abbey, Fischley, Greenwood, McCord.
Missing: Heckman, Schupska, Barth.

1941
1941
1941
1941
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1941

MINOR SPORTS

WRESTLING

Case men may well be proud of the accomplishments of the matmen of this year's team. Although the record in black and white is not so impressive as to demand great acclaim, it is the spirit with which this team and its coach battled against constant injuries to its members that commands admiration. The wrestling team, captained by Al Nason, completed a schedule of eight meets, winning four and losing four. Starting the season by losing a close one to an aggressive squad from Ohio University, Casey's grapplers rallied to strangle the Pittsburgh Panthers. The toeholders then dropped a thriller to the University of W. Virginia, followed by a satisfying victory over Washington and Jefferson. Returning to home grounds, the grunters overwhelmed Findlay College to register their third victory of the year. Fighting gamely, the matburn mob succumbed to a strong Michigan State team, only to come back and defeat Buffalo University. In the Tri-State tournament, Case placed third, with Nason copping a championship in the 175 lb. class, Zentgraf, runner up in the heavyweight, and Jiminez, third in the 125 lb. class.

First Row: Denton, Jamieson, Gurs, DiVencenzo.

Second Row: Coach Sharer, Carlson, Neville, Zentgraf, Webb, Kaminskas, Hanville.

First Row: Spatz, Wise, Gardner, Mills, Abramovits, Courtet.

Second Row: Webb, Wood, Dowling. Carpenter, Pekarek, Hunt, Hernecheck, Todd, VanVessem.

Third Row: Asst. Trainer Johnson, Mgr. Graham, Olmsted, Zentgraf, Byers, Bower, Van Hamersveld, Jacklitch, Horn, Scott, Coach Sharer, Trainer Rees.

Missing: Welf, Newell, Noble, Rau, Wood, Hildreth, Andersen, Jamieson.

The warm days of spring are a sure indication that the Case track aspirants will be getting into shape. Under the watchful eye of coach Claude Sharer, these men go through a rigorous training period previous to the opening meet of the season.

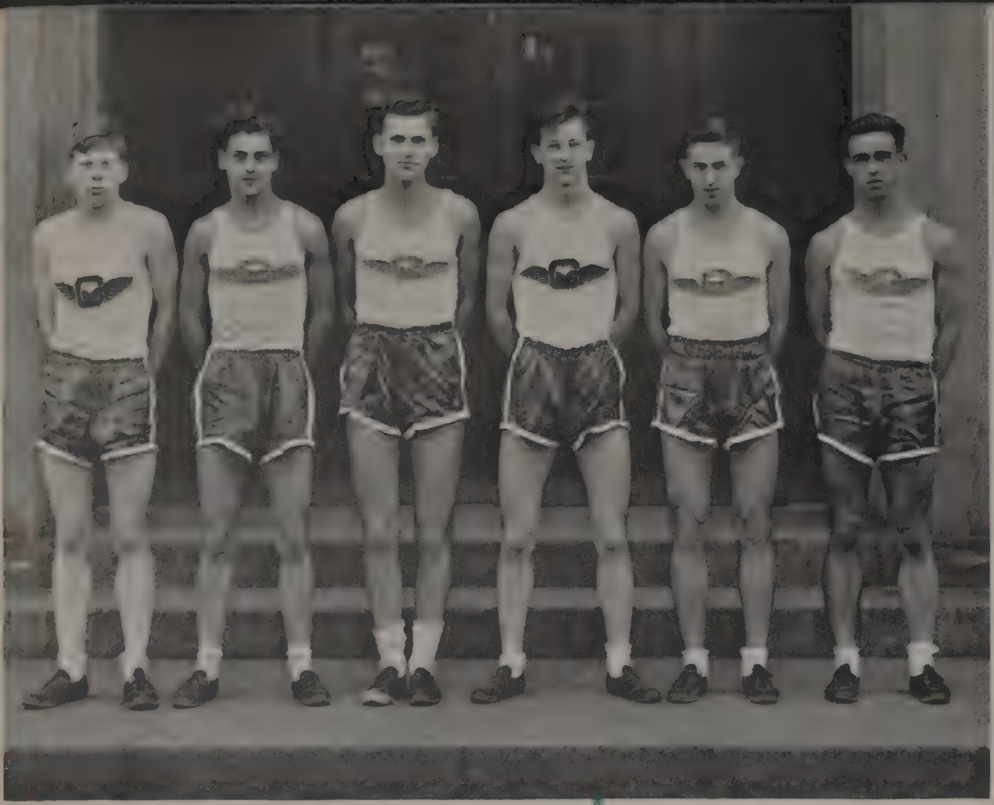
Several sophomore prospects have made places for themselves on the varsity squad, and should add much strength to the veterans of last season. Homer Bower and Ray Herzberger are both outstanding in the 100 and 220 yard dashes. Bower also competes in the hurdle events. Another sophomore find, John Jacklitz, is due to see service in the quarter and half mile events, while "Rip" Noble, also of the Class of '40, has turned in low times in the mile and two mile runs.

Among the varsity men of last season who are going to find berths on the varsity squad, are Chuck Abramovits and Ed Pekarek in the 440-yard run, Jim Carpenter in the high hurdles, Bruce Todd in the mile run, John VanVessen, sen, 1937 Ohio Conference Champion, in the half-mile run, Chuck Zentgraf in the shot put, Jim Hunt and Russ Mills in the two-mile run, and Jim Carpenter and Jack Hildreth in the jumps. According to all predictions, the 1938 track squad will be a tough team to beat in any league.

TRACK

TRACK SUMMARY

Case	68	Mount Union	63
Case	77	Baldwin-Wallace	54
Case	104	Kent State	27
Case	52	Wooster	79
Case	57	Reserve	74
Big Four Meet			Second
Ohio Conference Meet			Fifth



CROSS COUNTRY

Mills, Noble, Hernecheck,
Phillips, Pekarek, Hunt.

The 1937 season was started against the Scots of Wooster. After a nip and tuck battle, the stubborn Scot team finally nosed out the Sharermen and won the meet by a score of 28, 27. The Riders then took Bowling Green in stride by a score of 45 to 15. In this meet, as the score shows, nearly the entire Case team finished before the first enemy runner crossed the finish line. This was very encouraging, but on the next three Saturdays in succession the Brown and White men were beaten consecutively by Miami, 37 to 19, Mount Union, 30 to 27, and Oberlin, 37 to 20.

Jim Hunt, and "Nightmare" Mills, the flashing sophomores of last year, continued their good work. These two men were closely followed by Phillips, Noble, Craig, and Hernecheck. Coach Sharer will have many experienced juniors and sophomores to supply material for the squad next year.

Although it is considered one of the minor sports, fencing has become increasingly popular at Case.

Mr. L. Morris, the new coach, proved his merit by developing a team which practically duplicated the fine record set by last year's swordsmen. The squad dropped but four meets, all of which were against teams from larger schools. The schedule consists of nine meets with Oberlin, Ohio Wesleyan, Ohio Northern, University of Buffalo and Western Reserve University. Of these matches, the Case team beat Ohio Wesleyan twice, Ohio Northern twice, and Reserve. They lost two meets to Oberlin, one to Buffalo, and their second encounter with Reserve. The outlook for next year's squad appears very promising as there are fourteen new men striving for numerals and a position on the team.

Standing: Coach Morris; Fredrichs; Gregg; Fraas; Bennett.

Kneeling: Larsen; Toman; Zaffarano; Stuhr; Blackmore: Neidhart; Boeckling; Horvath.

FENCING

First Row: Findiesen, Kullow, Lawler.
Second: Kluge, Osgood, Crawford, Feazel, Clapper.
Third: Fromson (mgr.), Harrington, Andrews, Hildreth, Kyr (coach).

The swimmers opened the 1938 season by again starting off with a victory. This time Wooster fell before their splashing drive in the first scheduled meet. Although Wooster put up a glorious battle, they were unable to withstand Case's superior strength. The second victory of the Casers in the league meet was again Wooster only this time they were fairly drowned by the Casers, the score being 54 to 21.

Case was again the victor over their old rivals, Carnegie Tech Skibos, winning with a score of 45 to 30. Case's premature winning was stopped by Oberlin with a very tight score of 38 to 37. The strong Michigan State team again was too much for us, winning by a score of 52 to 23. The Ohio Conference Meet ended with Case again defeating Wooster and Kenyon placing first.

SWIMMING

Case	39	Wooster	36
Case	34	Ohio Wesleyan	41
Case	37	Oberlin	38
Case	54	Wooster	21
Case	23	Mich. State	52
Case	32	Wayne University	43
Case	45	Carnegie Tech	30
Case	25	Reserve	50

GAMMA PHI

Van Vessen, Green, Wood, Sam Freeman, Seaver, Dunasky.

The Gymnastic Fraternity of Case, a chapter of the National Gymnastic Society, consists of those students who find enjoyment on the parallel bars, the rings, and the various paraphernalia of the gymnasium. Headed by William Seaver, and coached by Al Spehek, the organization is making strides toward becoming a more active and consolidated fraternity.

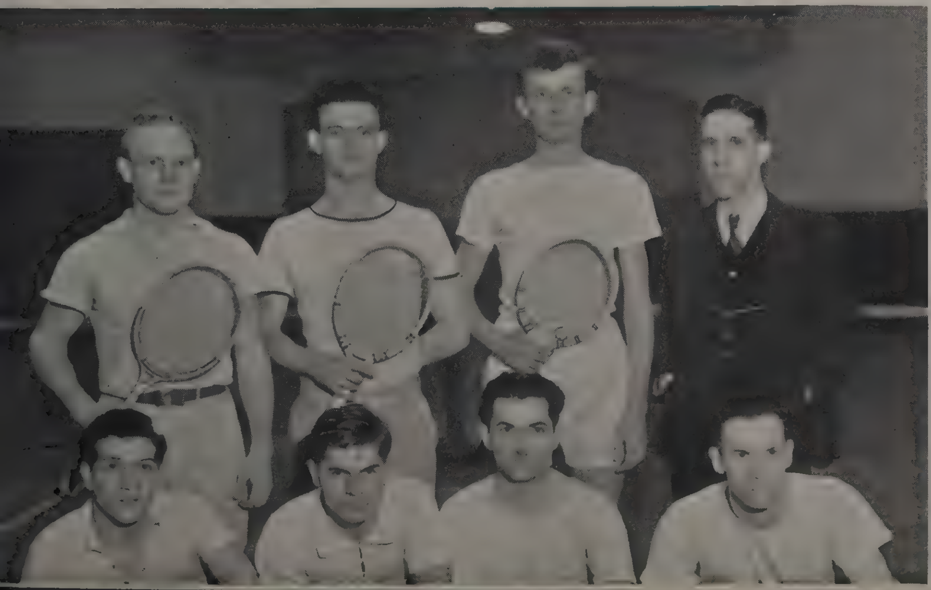
Meetings, semi-weekly this year, have afforded considerable time for practice to achieve perfection in the various drills and acrobatics. The members are, as in the past, preparing themselves for the various performances of the year. Chief among these performances are the ones at the Rodeo and Open House. This year also found them as a feature at basketball games. The active members, numbering eight men, have this year been more active than at any time in the past, by appearing and demonstrating their abilities more to the students themselves, and by showing added color at these performances.

The Case tennis squad, under the able coaching of Dr. C. O. Miller, is again attempting to bring this sport into greater prominence on the Case campus. Of all the athletic teams it probably deserves the most credit for its accomplishments. This year, as before, the boys had to rent indoor courts for practice. In spite of these obstacles, the 1938 season opened with a good turnout of new material. Among the veterans, are Captain Wiese, Kraus, Ganger, and Denton. Newcomers to the first string are Chapman, Shelton, Taber, Hodgson, and Lucht.

Dr. Miller, faculty advisor and coach to the team, is greatly responsible for the fine spirit the boys have shown in their play. The 1938 squad is much improved over the 1937 squad, and it shows great promise in the future collegiate matches. The school is planning to build a tennis court on the campus, and this will greatly improve the future prospects of the Case netters.

Kenyon, Toledo, Oberlin, Wooster, Reserve, and Carroll are the major schools in the Case schedule. In addition to the regular season schedule, the team participates in the Big Six and Ohio Conference Meets.

First Row: Ganger, Denton, Wiese, Kraus.
Second: Chapman, Taber, Shelton, Coach Miller.



TENNIS

INTRAMURAL MANAGERS

The intramural managers are entrusted with the administrative control of the intramural athletic activities. The senior manager position is appointive and has as its award the Case Honor Key and a varsity letter. The senior managers are appointed to this position in the spring of their sophomore year by the intramural board consisting of Coaches Ride and Sharer and the senior manager in control at the time of appointment. The newly appointed manager then acts as assistant to the Senior Manager until his senior year, at which time he assumes the position of Senior Manager.

The intramural managers award a cup emblematic of athletic supremacy to the winning fraternity team in each sport. At the end of each school year, the intramural managers award a cup to that fraternity which has accumulated the most number of points from all the sports which are included in the intramural schedule. This award is distinct from the individual sport trophy and is symbolic of athletic supremacy in all fields of sport.

Jory, Keim, Hopkins, Kuenhold, J. Kelley.

VOLLEYBALL

First Row: Dowling, Nord, Hildreth, Kraus, Leader.

Second: Mueller, Heckman, Benson, Hopkins, Nord, Crawford.

WRESTLING

First Row: Nord, Neville, Sutton.

Second: Rau, Holkesvig, Hornke, Benson, Johnson.

VOLLEY BALL

The volleyball schedule of the intramural board proved one of the most interesting in recent years. The Phi Kappa Psis sailed thru their schedule undefeated to place first, with the Beta Theta Pi's dropping but one encounter to slide into second. The Pi Sigma Phi's put an exceptionally strong team on the floor, but they faded in the home stretch, dropping into third place at the end of the season. The Phi Delta Theta's finished fourth in the standings.

WRESTLING

This year's schedule of wrestling matches proved to be the best in several years, with all the fraternities showing more interest in this sport than has been shown in the past. The Phi Psis downed the Phi Delts in a close match to nab the mat crown. The final standings of the season were: Phi Psis first, with four wins and no losses, Phi Delts second, with three victories and one defeat, the Betas and Sigma Nus finishing third and fourth respectively.

Intramural Champs

SWIMMING
First Row: Ogrody, Hendricksen, Mast.
Second: Koll, Kopf.

BASKETBALL
First Row: Dowling, Barth, Kraus, P. Kelley.
Second: Hopkins, Heckman, Mueller, Ward.

SWIMMING

The Betas proved to be the best natators on the campus fraternity list, nosing the Phi Delts out in a meet which displayed a real interest in this branch of the intramural sport program. The Sigma Nu's and Phi Psi's followed in the order named to round out the meet scores.

BASKETBALL

The greeks this year bitterly contested the battle for supremacy in the great art of bucketball. The schedule was marked by many upsets and close games. The Phi Kappa Psi's dominated the scene and finished first with no defeats. The Sigma Nu's lost in the finals after vanquishing a strong Phi Delt team. The Zetes pone of the highlights of the intramural athletic and dropped to fourth.

Intramural Champs

TRACK

First Row: Winterich, Johnson, Carpenter, Rau, Newell.

Second: Dowling, Hopkinson, R. Neville, Schellentrager, Hornke, H. Neville, Voss, Rogge.

BASEBALL

First Row: Dowling, Crawford, Burrows, Kraus, Hopkins, Hildreth.

Second: Findeisen, Nason, Kuenhold, Conrad, Rogge, Voss.

TRACK

With favorable weather and good management, the intramural track meet proved to be one of the highlights of the intramural athletic schedule. The Phi Kappa Psis won the meet with a total of 73½ points. Right on their heels came the Phi Delta Theta thinclads with 57½ points. The Sigma Nus, the Betas, and the Zetes finished third, fourth and fifth respectively. New meet records were set by Dowling (Phi Psi), in the discus; Pierce (Sigma Nu), in the 220 yd. dash, and Johnson in the 1200 yd. run.

BASEBALL

As usual, the baseball schedule was bitterly contested, with the Phi Kappa Psis at the top of the heap at the end of the season. Led by the excellent performance of Pitcher Burrows, the Phi Psis succeeded in going thru their schedule undefeated. Just below the champions in the final standings were the Phi Delta Thetas, closely followed by the Betas.

Intramural Champs

PAYMENT
TEST STATION

FRATERNITIES

ZETA PSI

Zeta Psi was founded at New York University on June 1, 1847 by John B. Yates Sommers, William Dayton and John M. Skillman. Zeta Psi is a conservative fraternity, having at present 28 chapters and ranks eleventh in national founding.

In 1884, three years after the founding of Case School of Applied Science, John Eisenman, a professor of engineering drawing, and several other Cleveland alumni helped form a chapter having Daniel Warmington, George Gardner and William and Frank Neff as charter members. This was on October 25, 1884, seven years before the coming of any other Greek letter organization to the campus.

Standing: Taber; Pelton; Skidmore; Bigelow.
Seated: Amsbary; Baty; Cotabish; Graef; Peters.

Standing: Webb; Vogt; Farr; Dunn; Lucht.
Seated: Harrington; Vilmar; DeFries; Elliott.

Standing: Atwater; Kempton; Shelton; Edgar; Blackmore.

Seated: Buchanan; Simpson; Bacher; Kojan; Chapman.

Standing: Smith; Keska; Meyer; Lucht.

Seated: Taylor; Gifford; Larer.

Founded Nationally 1847
Established Locally 1884

Standing: Rose; Mlckovsky; Lyle; Kluge.
Seated: Anthony; Marshall; Perkins; Horsburgh.

Standing: Fiordalis; Long; Dowden; Nicholl; Sisler; Weiss; Willison.
Seated: Haynam; Vogt; Hunt; Todd; Clapper; Winslow; Hewett.

Founded Nationally 1848
Established Locally 1894

PHI DELTA THETA

The Phi Delta Theta national fraternity was founded at Miami University, Oxford, Ohio in 1848. The six founders of the fraternity planned to have the fraternity national in its scope from the outset. The Civil War checked its growth, and it was not until the close of the war that it continued its expansion. At present it has 105 chapters.

The Ohio-Eta chapter at Case was organized in 1894 under the leadership of L. J. Schlesinger and J. H. Byerly. These men formed a local fraternity, Phi Lambda Omega, in 1895. This society was granted a charter by the national organization in 1896.

Standing: Harley; Roberts; Horsburgh; Williams; Curtis; Wilson.

Seated: Walter; Noble; Davidson; Spangenburg; Kulow; Hubbard.

Standing: Strawn; Hanna; Hess; Williams; Oatis; May; Abby; Albrecht; Greenwood; Lynch; Eichler.

Seated: Gibson; Long; Fischley; Farr; Shafer; Michel.

SIGMA ALPHA EPSILON

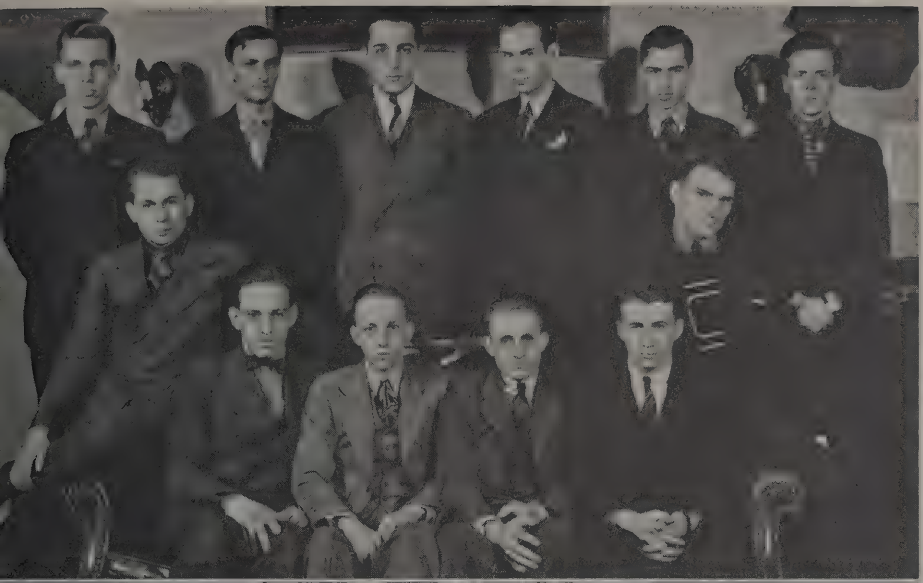
The Sigma Alpha Epsilon fraternity was founded in March 1856 at the University of Alabama. Although expansion was confined to southern colleges for a number of years, many chapters were soon established in the north. The fraternity has grown until now it boasts 110 chapters making it the largest social fraternity in the United States.

Ohio Rho was installed at Case in February 1905 due to the untiring efforts of W. W. Boughton, E. S. Crisp, and R. H. West, who were the founders of a social society, Sigma Rho, the predecessor to Ohio Rho chapter of Sigma Alpha Epsilon here at Case.

Seated: Endlich; Hookway; Converse; Horvath; Swartwout; Hodgson.

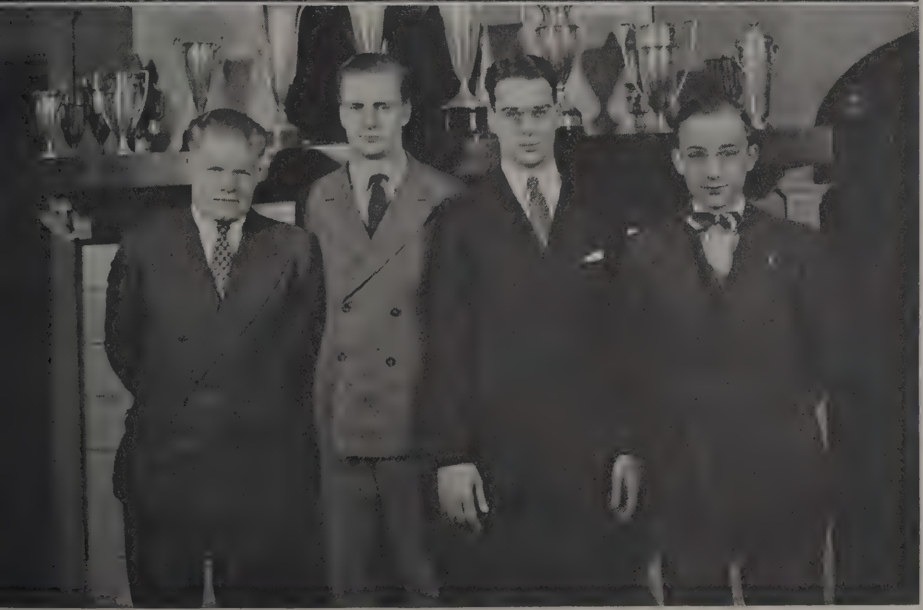
Standing: Wilson; Higgins; Quigley; Kaercher; Snook; Van Horn; Foster; Wahl.

Seated: Hall; Mathers; Richards; Heine; Knepper; Spindler; Foulks.



Standing: Jepson; Champney; Metzger; Frischmuth; Louden; Quayle.

Seated: Hanville; Swartz; Betz; Mayer; Brick; Read.



Standing: Backlund; Duff; Zaffarano; Quigley.

Founded Nationally 1856
Established Locally 1905

Standing: Bigelow; Atkinson; Speh; Markley; Willard.
Seated: Keim; Osgood; Riddle; Balbach.

Standing: Sharpe, Vanderhoff; Snow; Reed; Hendricksen; Black; White; Balha.
Seated: Risser; Needham; Tacl; Vitcha.

Founded Nationally 1839
Established Locally 1905

BETA THETA PI

Early history of Beta Theta Pi at Case centered around the Lyme Kil club, the forerunner of the present Lambda Kappa chapter. That early organization, founded in 1893, continued as a local group until 1905 when it became a part of the national fraternity Beta Theta Pi.

Early meetings of the Lyme Kil, or Lambda Kappa as it was beginning to be called, were held in a building on Euclid Avenue near the 105 St. section. From that beginning in humble circumstances, the group grew from a nucleus of seven members to the present one of 45 men.

Standing: Fitzwilliam; Wolfe; Strickland; Wallace; Hart; Forsythe; Cowan; McMillan.

Seated: Fredrichs; McKay; O'Grody; Koll; Weatherald; Melick.

Standing: Deems; Herberding; Stephens; Anders; Sorber.

Seated: Cadwallader; Wood; Robin; Fluke.

PHI KAPPA PSI

Phi Kappa Psi was founded at Jefferson College, now Washington and Jefferson, in 1852. Phi Kappa Psi is one of the Jefferson Duo, the other fraternity of the Duo being Phi Gamma Delta.

The founders, Moore and Letterman, organized the fraternity order to promote among its members the ideals of scholarship, morality, and democracy.

Phi Kappa Psi is quite conservative in its expansion program and at the present time has 52 chapters throughout the United States. The chapter at Case, Ohio Epsilon, received its charter in 1906.

Standing: Horne; Nason; Hopkins; Feazel; Maurer.
Seated: Leader; Kraus; Holkesvig; Neville; Looney.

Standing: Carpenter; Schellentrager; Hildreth.
Seated: Johnson; Crawford; Nord; Dettman; Winterich; Wolf; Waite; Sutton; Shoupe; Wilson.

Standing: Voss; Rau; Kelley; Dowling.

Seated: Findeisen; Kelley; Kuenhold; Neville; Newell; Hopkinson; Rogge; Hoffman.

Standing: Edwards; Benson; Heckman; Derhammer; Brewer.

Seated: Nord; Sinnott; Mueller; Obenchain; Mitchell.

Founded Nationally 1852
Established Locally 1906

Standing: Swanker; Craig.
Seated: Kuhlman; Martin; Engelhardt; Webber; Neeley.

Standing: Wood; Spence; Brohl; Trinter; Kline; Snyder.
Seated: Bennett; Seaton; Hartzell; Strickland; Lally.

Founded Nationally 1869
Established Locally 1907

SIGMA NU

Sigma Nu fraternity was founded in January 1869 at Virginia Military Institute. Original plans at the time of founding were to oppose a political combine on the campus. Expansion was started in the Western states at first, and then after firm entrenchment in the West, the East was next developed. From this developed a well balanced and nationally strong fraternity.

Delta Alpha chapter was established at Case in January 1907 due to the combined efforts of Cleveland Alumni and the active chapters at Ohio State and Mount Union.

Standing: LaMarche; Jory; Peirce; Boeckling; Ohly.
Seated: Kuemmel; Bishop; Bectel; Gradiner.

Standing: Newberry; McCord; Meyers; Bird.
Seated: Parker; Frankhauser; Kennedy; Stack.

SIGMA CHI

Standing: Bozman; Bradstock; Branning.
Seated: Herman; Varga; Wedow.

CASE

JUNIORS

B. W. Weidenkopf.

SOPHOMORES

L. A. Anderson, R. W. Miner, D. S. Phillips, H. F Stuhr, W. P. Zabel.

PLEDGES

C. Erikson, D. B. Hanson.

RESERVE MEMBERS

D. D. Agnew, R. Booth, E. Bozman, P. Bradstock, E. R. Branning, E. R. Brooks, E. Brown, J. Bruggeman, J. H. Franklin, R. Klemm, P. Kowallek, W. McGuire, C. Peck, C. Sargeant, F. Stuhr, D. Swanger, E. Van Oeverin, J. Varga, C. Way, J. F. Wedow.

PLEDGES

A. Bach, J. McGee, G. Blythin.

Founded Nationally 1855
Established Locally 1905

Sigma Chi fraternity was founded at Miami University, Oxford, Ohio in June 1855 by seven men, six of whom had originally belonged to Delta Kappa Epsilon and had voluntarily withdrawn from its membership due to a disagreement.

Sigma Chi became incorporated under the laws of the state of Illinois, and now has ninety-six active chapters located in thirty-five of the forty-eight states.

Beta Eta chapter was granted its charter in 1909 to serve both Case and Reserve after Kappa Tau Phi, local fraternity of Case, and Chi Omicron of Reserve had both asked for charters, as neither was large enough to be established independently. This chapter was unique in that it united students of two entirely separate institutions.

Standing: Boath; Hanson; Swanger; Mainey.
Seated: Zable; Agnew; Peck; Weidenkopf.

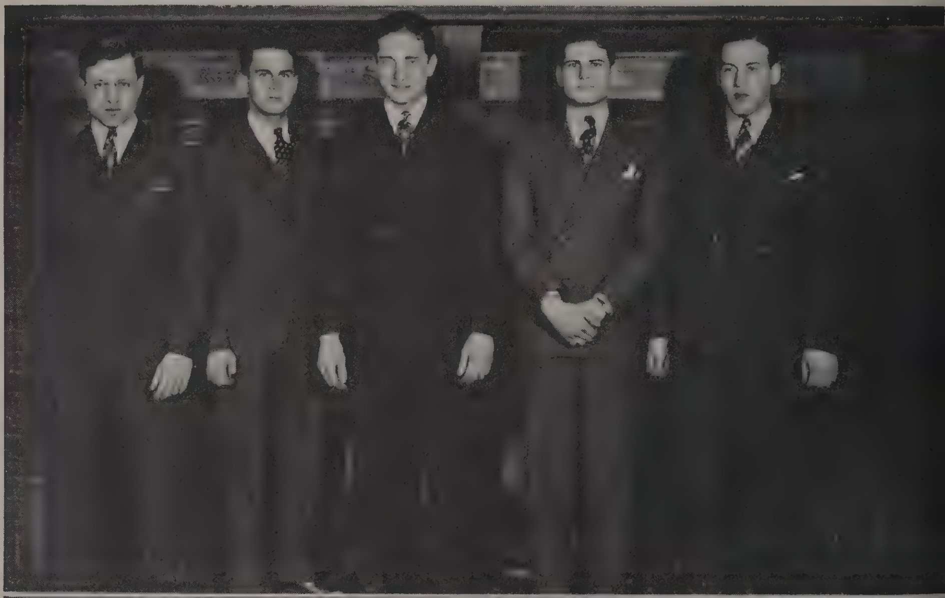
Standing: VanOeveren; Sargent; Stuhr; Anderson; Brown; McGee.
Seated: Klemm; Miner; Stuhr; Phillips.

PHI SIGMA PHI

The Pi Sigma Phi fraternity was founded at Case in the fall of 1921, succeeding the Sci-Case club organized by J. L. Berger, N. E. Woldman, Z. Wirtshafter, A. A. Glick, S. N. Goodman, N. Bluffstone, and M. Zucker.

Throughout the seventeen years which have elapsed since its inception, Pi Sigma Phi has attempted and accomplished much in maintaining its original ideals of quality, conservatism and fellowship.

Standing: Berlin, Friedland, Herwald, Fromson, Ornstein.



Seated: Friedman, Gottehrer, Klein, Ganger, Mendelson.

Standing: Taub, Friedman, Siskin, Sicherman.
Seated: Roth, Matlow.

Standing: Foldy, Weisman, Benjamin, Weissman, Glickman, Klein, Resnik.
Seated: Yohalem, Miller, Epstein, Gogolick, Brooks.

Founded at Case 1921

Founded Nationally 1906
Established Locally 1925

Phi Kappa Tau was founded at Miami University at Oxford, Ohio, March 17, 1906. This fraternity stresses the importance of the practice of American ideals of democracy on college campuses.

The fraternity was originally known as the "Phrenecon Association" and chapters were organized at Ohio University, Ohio State, Centre College, Mt. Union, and the University of Illinois. In 1916 the Greek letter title, Phi Kappa Tau, was adapted.

The Alpha Delta chapter at Case, was installed in 1925, when Tau Gamma Psi, a local organized in 1919, received a charter. The chapter has been active on the campus ever since. It has been striving constantly to maintain the traditions of high scholarship, genuine culture, sound business practices, and wholesome fellowship.

Seated: Gehrung; Basl; Lange; Fuller; Jacobs; Friedman.

Seated: Drechsler; Cowles; Cetrone; Collins; Beckwith; Hover.

PHI KAPPA TAU

Standing: Harris; Neidhart.
Seated: Graham; Friedel; Mansell; Cairnes.

SENIORS

C. W. Cairnes, J. J. Graham, R. C. Kasper.

JUNIORS

G. J. Basl, S. J. Friedman, C. S. Fuller, J. H. Gehrung, F. W. Jacobs, R. W. Lange.

SOPHOMORES

H. H. Friedel, J. J. Neidhart.

FRESHMEN

R. W. Beckwith, J. M. Collins, A. C. Dreschsler, J. S. Hover.

PLEDGES

J. H. Cowles, '41, J. F. Harris, '40, V. C. Cetrone.

PHI PI PHI

Standing: Cline; Cook; Harlow; Cadwell; Happy.
Seated: Davis; Loeffler; Burrage; Allen.

SENIORS

C. G. Allen, H. P. Davis, E. J. Loeffler.

JUNIORS

D. W. Caldwell, A. J. Cook, H. W. Harlow.

SOPHOMORES

R. M. Cline, D. K. Gallup, D. A. Garrison, E. C. Gregg, E. H. Schanzlin, J. H. Shaffer, W. J. Thomas.

FRESHMEN

T. E. Alexander, F. D. Brasington.

PLEDGES

R. R. Bedell, '41, S. P. Gurs, '40, R. L. Hagedorn, '41, H. E. Oberst, '40, V. J. Obrig, '41.

Founded Nationally 1915
Established Locally 1926

Phi Pi Phi was originally founded as a graduate organization at Chicago in 1915. In 1923, the organization became recognized as an undergraduate social fraternity, and a chapter was installed at Northwestern University. The organization began to expand until there were twenty chapters located at colleges and universities throughout the United States.

The Case chapter, Lambda of Phi Pi Phi, was accepted by the organization in 1926. Before that time it had existed in various other forms. It had really orignated in 1909 when a group of mining students at Case established a national fraternity known as Sigma Kappa Alpha, later Mu Sigma. Since then, the chapter has been incorporated as Theta Tau and Tau Delta Tau, until granted a charter by Phi Pi Phi in 1926.

Standing: Gurs; Thomas; Gallup; Schanzlin; Oberst.
Seated: Critzer; Shaffer; Garrison; Gregg.

Seated: Hagedorn; Gable; Brasington; Alexander; Bedell.

Founded Nationally 1901
Established Locally 1931

Beta Kappa Fraternity was founded in 1901 at Hamline University, St. Paul, Minnesota by D. P. Rader, E. I. Marlotte, A. T. Spencer, and C. H. Wallace. The second chapter of the fraternity was established at the University of Washington in 1921. The local chapter was founded in 1909 by eight Case men with the name Sigma Tau Delta. In 1931 the alumni and active members petitioned Beta Kappa for admission into the national group and on Dec. 29, 1931 the local group became the Alpha Nu chapter of Beta Kappa Fraternity.

Standing: Haberland, Knox, Eglin, Erthal.

First Row: Heddleson, Giloy, Yoder.
Second: Williams, Wilson.

BETTA KAPPA

Standing: Reeves, Davis, Thurston, White.

Seated: Schawary, Carpender, Hook, Morrison, Pettepiece, Knapp.

SENIORS

B. G. Eglin, J. F. Erthal, E. R. Haberland, H. P. Knox.

JUNIORS

E. W. Giloy, F. A. Heddleson, H. R. Kalal, R. D. Yoder.

SOPHOMORES

P. W. Williams, J. A. Wilson.

FRESHMEN

R. T. Hook, W. H. Morrison, T. G. Thurston.

PLEDGES

G. H. Davis, '41, W. Carpender, '41, E. J. Knapp, '41, W. E. Pettepiece, '41, J. B. Reeves, '41, R. E. Schwary, '41, J. White, '41.

THETA KAPPA PSI

Seated: Scott, Hippler.
Standing: Keller, Brennan, Loretta, Lacey, Tapleshay.

SENIORS

E. J. Capstack, J. S. Dillon, N. E. Mertz, A. R. Satullo, F. J. Sezemsky.

JUNIORS

J. F. Cachat, R. J. Cerny, L. B. Courtot, J. I. Lacey, F. B. Loretta.

SOPHOMORES

W. R. Brennan, L. J. Hippler, C. L. Scott.

FRESHMEN

J. D. Andrew, R. J. Dillon, J. F. Bork, L. A. Hewitt,

PLEDGES

L. J. Ebert, '41, L. J. Hill, '41, W. B. Keller, '40, C. C. Shipley, '41, R. R. Zulak, '39.

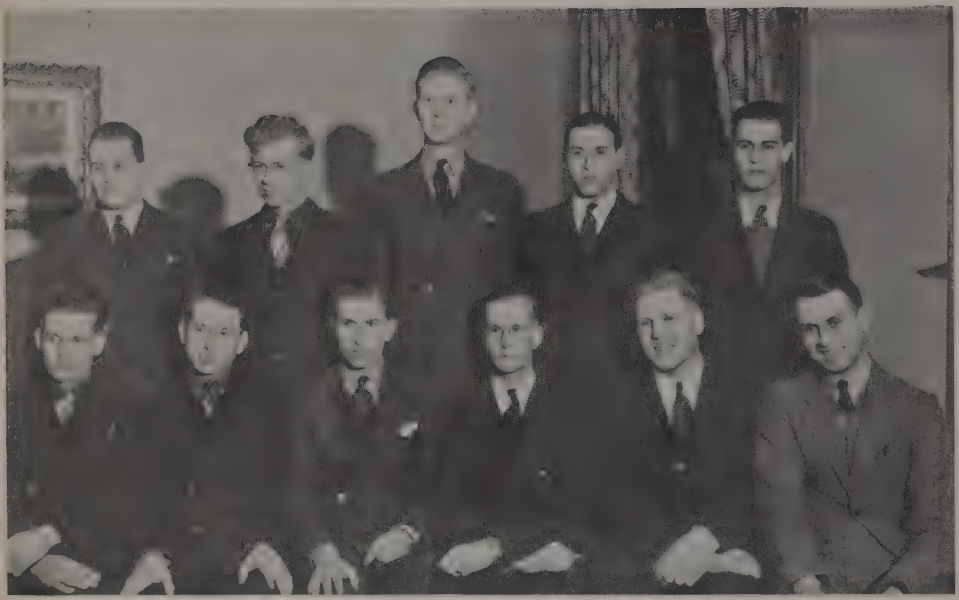
Reserve Chapter Founded 1925
Case Chapter Founded 1932

Prior to 1932, the only Catholic organization in any way connected with Case was the Newman Club of Case and Reserve. In 1932, a group of Catholic men of Case came together and with the purpose of promoting social activities among the Catholic students of Case, formed a fraternity. This fraternity was named Theta Kappa Psi.

Since that time, Theta Kappa Psi has gone through all the stages of a new fraternity, and not until now has it begun to gain a measure of stability that is characteristic of a well established organization.

Seated: Satullo, Mertz.
Standing: Cachat, Courtot, Dillon.

Seated: Hewitt, Sezemsky.
Standing: Shipley, Andrew, Hill, Dillon, Bork.



Standing: Zabel, Loeffler, Graham, Ornstein, Graef.
Seated: Dillon, Hanville, Riddle, Horsburgh, Maurer, Mertz.

INTERFRATER COUNCIL

The Interfraternity Council is the governing body of the Greeks on the campus. Its primary purpose is the promotion of amicable relations between the various fraternal organizations. By working out the individual problems of each fraternity, the whole group profits and a union is formed between the different societies.

The Council is composed of a junior and senior delegate from each fraternity. The junior is elected at the beginning of the second semester, and he serves to the time of his graduation.

The particular functions of the Interfraternity Council are the supervision of interfraternity activities, both athletic and social. Also the Council directs its efforts toward a closer union between the fraternities and the school in respect to Freshman rushing and discipline.

The Interfraternity Council forms an important factor in the fraternity organization on the campus and through its own diligent labors and the hearty cooperation of the fraternities and school authorities has carried out its program very successfully.

HONORIES

Seated: Reimenschneider, Hanville, Leader, Keim, Betz.

Standing: Looney, Osgood, Willard, Engelhardt, Martin, Rose, Kuhlman, Feazel, Seaver, Carlson, Dillon, Hildreth.

TAU BETA PI

In order to realize his desire to confer honor and merit upon men who consistently maintain a high grade of scholarship and to foster a spirit of liberal culture in engineering institutions, Dr. Edward Higginson Williams founded the honorary engineering fraternity, Tau Beta Pi, in 1885 at the University of Lehigh.

The Case chapter of this organization was established in 1900 with the purpose of furthering the principles set down by Dr. Williams. While the selection of members is based primarily on scholastic attainment, the character, personality, breadth of interest, and spirit of service of each candidate are also considered before he is elected.

During the first semester of each year, three men may be chosen from those men in the upper eighth of the junior class. During the spring semester as many men are elected from this upper eighth as the members of the chapter see fit to choose. Members may be chosen from the upper fourth of the class during the senior year.

Sigma XI is the graduate honorary fraternity organized for the purpose of stimulating independent research. The privilege of membership is granted to such members of the senior class as have, during their college course, given special promise of future achievement and to such alumni as have been eminently successful in their profession. Elections are held just previous to commencement. The work done and ability shown by a student in the development of his thesis are the main standards upon which he is judged as a candidate.

The society was founded in 1886 at Cornell by Professor Henry S. Williams. The Case chapter was established in 1904. Dean Focke and Dr. D. C. Miller are two members of the petitioning body still connected with the school.

There are generally two or three meetings held each year. One is held at commencement time for the initiation of the new members. For these meetings, the society engages speakers who are active in some line of professional work.

SIGMA XI

THETA TAU

Theta Tau is a general fraternity for juniors and seniors of marked professional ability, and with leadership of outstanding quality. The national fraternity was organized at the University of Minnesota on October 15, 1904. The Delta Chapter of Theta Tau was founded at Case in 1906, two years later.

Theta Tau has many meetings throughout the year, usually accompanied by a banquet. Speakers of note and merit speak on subjects of special interest to engineers, occasionally augmenting their talks with motion pictures.

It was through the auspices of Theta Tau that a series of successful lectures was made available to the student body at large. Men prominent in the engineering field spoke on the future, past and present of engineering, their lecture usually being followed by a session of questions. Many invaluable points of view and bits of advice were obtained from these talks, and it is hoped that Theta Tau will continue to aid Case men through excellent leadership and valuable lectures.

Left to Right, First Row: Carlson, Winslow, Willard, Neville, Nord, Snow.

Second: Louden, Hanville, Markley, Looney, Lubahn, Seaver, Graham, Horsburgh.

Third: Willison, Jepson, Hildreth, Hornke, Crawford, Neely, Reed, Riemenschneider.

First Row: Blenkorn, Kuhlman, Houts, Cotabish, Betz, Zorn.
Second Row: Seaton, Jones, Dillon, Peruzzi, Hartzell, Morgan, Heidenreich, Pepper.
Third Row: Bendel, Atkinson, Wood, Schellentrager, Thomas, Keim, Leader.

ALPHA CHI SIGMA

The Gamma chapter of Alpha Chi Sigma, the national professional fraternity for chemists and metallurgists, was established at Case in 1906, four years after the founding of the fraternity at the University of Wisconsin.

The society seeks to bind its members in both a social and a professional manner for their mutual benefit and in the interest of chemistry as a science. Students in the chemistry and metallurgical departments of the school are eligible for membership in the second semester of their sophomore year. Election is based on character, scholarship, personality and ability. Each year, a personal award is given to the freshman who, in the opinion of the fraternity, has done the most outstanding work in chemistry, and his name is engraved on a plaque which hangs in the Chemistry Building.

ETA KAPPA NU

Left to Right: Loeffler, Hanville, Prof. Owens, Haberland, Louden, Engelhardt.

Eta Kappa Nu is a national honorary fraternity which selects its members in the fall and spring from the juniors and seniors in the electrical department. To qualify for membership, a student's scholastic record and character must show promise of a successful engineering career.

Many of the exhibits shown each year by the electrical department during open-house are prepared and conducted by members, so as to give the public a true view of the activities carried on at Case. A very successful smoker was sponsored January 13 in conjunction with the A. I. E. E., for the whole electrical department. Under supervision of the fraternity, an inspection trip for the electricals through General Electric plant at Erie, Pennsylvania, was carried out. Each year a handbook is given to the most outstanding sophomore electrical.

Extra-Curricular activities are being emphasized more and more each year. The value of these activities are recognized by the college as an essential factor in broadening the scope of the technical student.

As an incentive for participation in these fields, an honor point system has been installed. Each activity is rated according to the time it requires and its value as is set forth by the Case Senate.

The Case honor key may be earned by any man holding an honor key position or acquiring a total of 45 points in 4 years. The highest ambition of every Case man is the possession of an honor key.

HONOR KEY

Seated: Riddle, Jepson, Keim, Neville, Hildreth.

Standing: Leader, Kuhlman, Hopkins, Fromson, Wood, Looney.

ACTIVITIES

Reimenschneider, Weiss, Carlson, Churchill, Jepson, Holkesvig, Spangenberg, Melick

CASE SENATE

The Case Senate, as its name denotes, is the highest and most powerful organization of the student body. It is the official link between the faculty and undergraduates. Not only does the senate act as moderator in student difficulties of all kinds, but it also supervises and conducts assemblies and elections, maintains order throughout the year, completes the arduous task of compiling and awarding honor points, and fixes schedules of events so that the many student enterprises may operate with freedom and without interference with each other. The members of this ruling body are elected by popular vote of their respective classes at the annual elections in the spring. There are eleven members chosen; four seniors, four juniors, two sophomores, and one freshman. In this way it is possible to maintain a balance of experience to meet the ever rising problems in student life.

At the beginning of each school year any student who is scholastically eligible may try out for the Board of Managers. The board, consisting of three seniors, two juniors, and one sophomore, is chosen at elections held annually. It is their duty to take over the management of the Case Club and to organize such school dances as the Junior Prom, the Engineers' Brawl, and the dances held after the various athletic contests throughout the year.

The problem presented by the Case Club has been ably handled; the board has done the utmost to make the facilities for relaxation and comfort readily available for the student body. Their faculty advisor, Professor Churchill, has done a great deal in helping the organization to discharge its responsibilities.

BOARD MANAGERS
Seated: Looney, Brohl, Melick.
Standing: Schellentrager, Jepson.

BOARD OF MANAGERS

The chairman of the Junior Prom is selected from the members of the board. This year the honor was given to E. C. Brohl, who led the Casers through a memorable evening at the Hotel Cleveland, dancing to the music of Frankie Master's Orchestra.

BLUE KEY

Left to Right, First Row: Pelton, Markley, Holkesvig, Jepson, Riddle, Kuhlman, Hornke, Nord
Anthony.

Second: Neville, Osgood, Keim, Hayman, Horsburgh, Weiss, Carlson, Feazel, Leader
Looney.

Third: Zentgraf, Crawford, Riemenschneider, Kraus, Brohl, Nason, Mlckovsky, Hildreth, Kalal

Blue Key, junior-senior honorary society, displaces the old Owl and Key and the Skull and Bones societies founded in 1903 and 1905 respectively. In 1932 these two groups were combined to form the Case chapter of Blue Key. The fraternity was founded at the University of Florida in 1925, and today has seventy-three active chapters.

Blue Key retained the traditions and purposes of the older societies. Its purpose is to encourage those who have established themselves on the campus as leaders in students' activities. One of the highlights of the year, the Case-Reserve Dance, owes much of its success to the efforts of this organization. Other parts of the Blue Key program included luncheons, talks, and general get-togethers, all of which has served to weld the organization into one of the finest of its kind on any campus.

BOARD OF PUBLICATIONS

As a controlling organization of campus publications, the Board of Publications was established by the Case Senate in 1931. The Board consists of five members of the faculty and five students who, as a body, act not only in an advisory capacity, but also select from the student body the head of the News Service, the editors and business managers of the Tech and Differential and the student editor of the Alumnus. These positions have increasingly become the most important positions on the campus, and are therefore much sought after by individuals of the student body. The faculty members act as advisors while the five students of the Board are given the right to name the potential successors of their respective positions.

Membership

Mr. C. F. Chapman	Alumnus Editor
Prof. G. H. Mills	Differential Advisor
Prof. K. O. Thompson	Tech Editorial Advisor
Dr. C. F. Prutton	Tech Business Advisor
Prof. H. R. Young	News Service Advisor
J. C. Hildreth	Differential Editor
E. T. Nord	Differential Bus. Mgr.
C. R. Keim	Tech Editor
J. T. Looney	Tech Bus. Manager
R. E. Fromson	News Service Head

BOARD OF PUBLICATIONS

Seated: Prof. KO Thompson, Nord, Hildreth, Looney, Osgood, Prof. G. Mills.
Standing: Keim, Fromson, Mr. Chapman, Prof. Young.

Jack Hildreth
Editor

Eric Nord
Business Manager

CASE DIFFERENTIAL

The Case Differential constitutes a visual as well as graphic representation of the many memories dear to Case men. Therefore, it is of great concern to the student body that each issue be a worthy successor to the last, and a fitting picture of four years of memory.

With this consideration in mind the Differential staff has organized and issued what it considers a worthy addition to the bookshelves and memories of Case men. The entire organization of the book has been changed from cover to cover. The staff feels that this issue will fulfill its every expectation and obligation, as the book represents months of work, writing, planning, and organizing.

This year's Differential is a monument to the perseverance and ability of the editor and his staff that will bring to life, many years from now, memories of an earnest and youthful past.

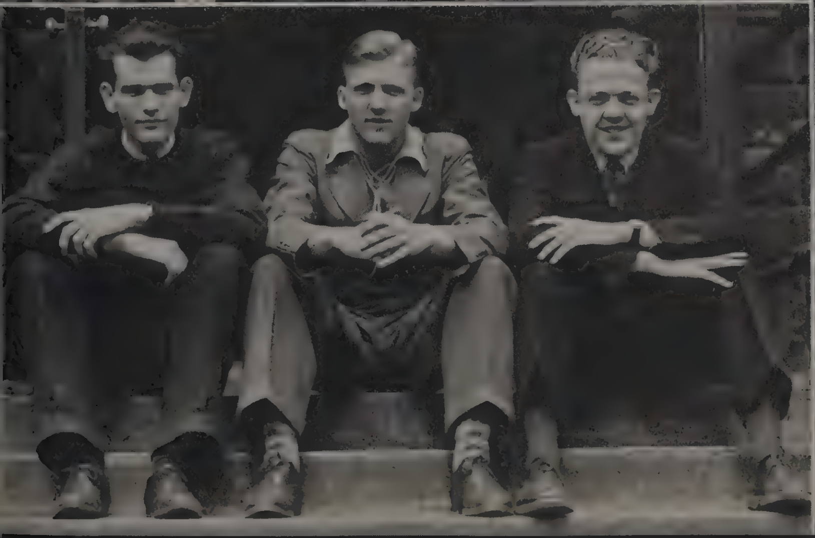
EDITORIAL STAFF

W. A. Crawford
C. M. Dunn
E. V. Douden
H. A. Friedman
L. B. Ganger
G. E. Klein
F. O. Snyder
G. W. Taber
H. C. Webb
G. A. Boeckling
L. J. Hippler

W. F. Hoffman
R. J. Koll
P. J. LaMarche
H. E. Neville
W. H. B. Newell
R. L. Shelton
A. R. Siskin
J. M. Taub
J. A. Wilson
W. T. Strickland
G. P. Chapman

BUSINESS STAFF

F. W. Kopf
W. S. Schellentrager
R. H. White
C. F. Wood
N. I. Kuenhold
J. MacKay
A. D. Peirce
W. L. Rau
J. A. Voss



NEWS SERVICE

Publicity has long been a factor in the success of many ventures. It has played an important part in the shaping and molding of Case School. It is the duty of the Case News Service to publicize the school and to keep the public informed of the activities and merits of Case men. This enormous feat is accomplished by the student director of the News Service and his staff of fifteen men. Cleveland newspapers and out-of-town papers are notified of the events of local school interest.

Under the supervision of Professor Young the organization has grown from a small group of enterprising individuals to a well organized efficient mechanism of publicity. It is largely due to the cooperation of the News Service with Joe Moore and "Chappy" that Case has been in newspaper print so frequently.

The school owes a vote of thanks to these men and the organization, and it is to be hoped and desired that the organization will continue its efficient invaluable function.

First Row: Foldy, Brooks, Boltz, Donasky.

Second Row: Reed, Stack, Steel, Mendelson, Feazel, Fromson, Dowden.

ALUMNUS

Seated: Wood, Reed, Chapman, Leader, Keim.
Standing: Jory, Nicholl, Eglin, Jepson, Reimenschneider, Osgood.

The Alumnus is one of the closest bonds between the graduates and undergraduates of Case. It is designed on the theory that the affairs which interested a man while he was a student still attract his attention after he has graduated. Proof of the correctness of this theory is the enjoyment derived from the student and alumni sections of the Alumnus by both the students and the graduates. This publication is of especial interest to the students because from it a man can get a wide view of the results of Case training and also a knowledge of Case traditions.

The Alumnus is seen as one of the most effective aids in the campaign for funds for new buildings and equipment on the campus. A broad step has been taken in increasing the circulation and also in increasing the number of pages by one-half of last year's number. Much of the increased work imposed by this is being carried out by the student staff, but of course, the responsibility for all this rests upon the shoulders of the alumni secretary.

The magazine is distributed eight times a year and to obtain their copies the students must individually call for them and have their name checked off the class list. The Alumnus has a distribution of practically the entire student body.

CARROL KEIM
Editor

JOHN LOONEY
Business Mgr.

THE CASE TECH

The school publication, the Case Tech, has held an enviable record among college newspapers both from the standpoint of quantity and quality of work. Each year of publication brings experience and new innovations in style and editorial policy. This year marked the entrance of new and up to date column formation. The editorials this year, too, reached more effectively and eloquently to the logic of the student body, and many very important problems were forcefully presented in these editorials. Some of them brought results, while some failed valiantly.

CASE TECH EDITORIAL STAFF

Front Row: Seaver, Snow, Reed, Kuhlman, Horsburgh, Klein, Sicherman, Sutton, Kluge, Leader.

Second Row: Hartzell, Dillon, LaMarche, Jory, Wood, Eglin, Mendelson, Herwald, Winslow, Riemenschneider, Nicholl.

BUSINESS STAFF

Neville, Feazel, Loeffler, Newell, Johnson, Melick, Ohly, Horsburgh, Bolz, Blaha, Tacl.

This year the paper was edited very capably by Carroll Keim, and was kept up with the pace set by the trends of the leading Ohio journals. At the same time the business staff, under the guidance of John Looney, did a commendable job of the financial department of the paper.

The Case Tech is a necessary and invaluable service and adjunct to Case life and activities. It is to be earnestly wished that the Case Tech will continue its present high quality and service to the student body of the school.

The Case Orchestra, under the expert tutelage of the increasingly popular George Strickling, devoted itself this year to the mastering of semi-classical music. The group has become an increasingly important member of the Case Musical Clubs.

The organization is composed principally of members from the band, augmented by some others who play stringed orchestral instruments. This year, the instrumentation of the orchestra was much better balanced than in past years, and the effects obtained were truly symphonic. It is the aim of the members of the orchestra to serve as accompanists for the Glee Club and to play at more Case functions. Due to a scarcity of engagements, the orchestra has not been able to make the most of its well-balanced library of music, but when the opportunity has presented itself, these young musicians have given splendid performances.

ORCHESTRA

DEBATE CLUB

With the completion of the Spring trip, the Debate Club finished the most successful season in its history. Competing in over forty debates against twenty-five different schools the Debate Club represented Case against such schools as Kent State, John Carroll, Washington and Jefferson, Akron, Marietta, Denison, St. Xavier, Carnegie Tech, Detroit, Wayne, Notre Dame College, Hiram, Dayton, and Western Reserve. The Western Reserve contest was held over the air waves from Station WGAR. The program of the year also included discussions before various church and business organizations and societies.

The twenty-three men who turned out for debating this season is the largest number in the history of the club. The outlook of the Debate Club for next year looks promising with many freshmen returning to bolster up the personnel of the squad. The Debate Club was coached by Mr. W. E. Umbach with Professor K. O. Thompson acting in the capacity of advisor.

First Row: Dillon; Mr. Umbach; Prof. Thompson; Satullo; Denton.

Second: Friedman; Yohalen; Weisman; Matlow; Wilson; Lock; Miner.

Third: Yarham; Klein; Fraas; Friedman; Loretta; Roberts; Roth; Laurich.

FIRST TENOR

Bigelow, G. V.
Cotabish, H. N.
Drescher, H. J.
Goetz, J. S. P.
Hartzell, L. O.
Hoffman, W. F.
Horvath, R. W.
Kennedy, P. A.
Melick, L. L.
Neil, R. H.
Rock, R. J.
Schipper, J. F.
Schmidt, C. W.
Seaver, W. B.
Sinnott, L. J.

SECOND TENOR

Brohl, E. C.
Cairnes, C. W.
Chapman, G. P.
Forsythe, W. W.
Graham, G. R.
Harley, R. E.
Herrick, D. B.
Jones, A. S.
Kopf, F. W.
Kuhlman, W. B.
Mansell, B. E.
Martens, R. A.
Meyers, E. A.
Resnik, Marvin
Robin, D. C.
Rogge, R. S.
Sharpe, R. H.
Vitcha, E. T.
Wood, C. F.
Zaffarano, D. J.
Zentgraf, C. W.

BARITONE

Ambrose, H. H.
Barre, W. E.
Blackmore, R. W.
Ganger, L. B.
Giloy, E. W.
Henrikson, K. G.
Hopkinson, H. L.
Kock, C. J.
Kugler, W. H.
Markley, G. F.
MacKay, J.
Meyer, R. W.
Pepper, W. E.
Sampson, M. B.
Shelton, R. L.
Swartwout, D. K.
Wetherald, R. W.
Winslow, W. B.
Yoder, R. D.
Zorn, F. M.
Zulak, R. R.

BASS

Alexander, T. E.
Bliss, W. M.
Conrad, J. C.
Cummings, G. J.
Crandall, R. S.
Dowden, E. V.
Farr, R. H.
Findeisen, J. O.
Fuller, C. S.
Hauser, F. H.
LaMarche, P. J.
Scheutzow, W. J.
Shontz, W. P.
Snook, R. E.
Taub, J. M.
Wallace, R. B.
Willison, R. E.

PIANISTS

Rose, G. F.
Bemis, W. H.

The Case Glee Club has long been an honored activity on the Case campus. It has held and does hold an enviable record of successful performance that represents a pleasant and cultural diversion from the very practical everyday activities of an engineering school.

This year the club has reached its peak of quality and quantity of performances. The club has sung over the air several times, and has sung in various high schools, lodges, and churches. And, as a fitting climax to a successful year, the club, in collaboration with the other Case musical organizations, presented its second annual Home Concert at Severance Hall.

It is to be wished that the club will continue its upward surge under the able direction of George F. Strickling, and will seek new lands to conquer, knowing that it represents a valuable addition to the cultural education of Case men.

GLEE CLUB

BAND

Success and accomplishments again marked the band season this year. The excellent tutelage of G. F. Strickling produced a well-coordinated and musically sound organization.

Several innovations were introduced during the year. For the first time in collegiate circles hereabout, the goose step was used in marching. The idea met with general approval and seems likely to remain in the repertoire of the band.

After a number of years of shortage, Case presented a drum major fitting the popular imagination in the person of a 6 foot-4 inch freshman, Don Robin. On the other end of the size scale was the little eight year old mascot, Joan Strickling. Joan's determined efforts to keep up with the drum major, along with her general demeanor, made her a prime favorite with the fans every time she appeared.

As usual the trips taken by the band constituted the high points of the season. The longest jaunt was an overnight excursion to Cincinnati. This year the band traveled to Oberlin for the annual Migration Day football game. In addition to these trips, the band played over the radio on the rally program held before the Carroll game, on an evening concert broadcast in February, and at the Musical Club's concert.

MEMBERSHIP

SENIORS

Barkalow, C. E.
Cairnes, C. W.
Deuring, E. E.
Jones, A. S.
Peruzzi, R. V.
Scott, R. M.
Sperling, Wm.

JUNIORS

Harlow, H. W.
Hitz, R. E.
Kopf, F. W.
Lacey, J. I.
Milde, N. H.
Morgan, S. L.
Olmstead, R. H.
Sandberg, C. E.
Silsby, C. C.
Simpson, C. K.
Weidenkopf, B. W.
Zaffarano, D. J.

SOPHOMORES

Dorris, R. C.
Hamilton, J. L.
Hoffman, W. F.
Hookway, R. O.
LaMarche, P. J.
Marble, F. E.
Neidhart, J. J.
Ohly, C. W.
Protiva, R. F.
Shaffer, J. H.
Simonson, C. I.
Smith, W. K.
Smolensky, S. M.
Swartwout, D. K.
Stern, L. D.
Thomas, W. J.
Wetherald, R. W.

FRESHMEN

Arms, R. J.
Beckwith, R. W.
Bird, F. L.
Carpender, W. P.
Curtis, R. W.
Goetz, J. S.
Herter, R. E.
Hoard, K. S.
Hook, R. T.
Howson, R. C
Jones, J.
Keska, K. R
King, A. H.
Klein G. M.
Koch, C. J.
Larer, D. P.
Moorehouse, W.
Newberry, W. J.
Obenchain, F. R.
Parker, K. R.
Patton, O. B.
Quigley, J. H.
Scheutzow, W. J.
Seal, R. E.
Van Horn, I. H.
Wahl, Wm.
Wilson, L. F.

A. S. C. E.

A variety of excellent programs marked the calendar of the Case chapter of the American Society of Civil Engineers this year. Prominent engineers from various fields are invited to speak before the student members at the regular monthly meetings held at the Case Club. The guest speakers include: Dr. W. E. Wickenden, Prof. F. J. Plummer, A. L. Alin, C. E. Donnley, Prof. Barnes, Dr. Donner, A. A. Burger, and Col. W. Chevalier. Student members also presented talks on material the American Society furnished the chapter. Two joint meetings were held with the Cleveland Section during the year. The program also included several dinner meetings and inspection trips to various projects.

The Cleveland Section sponsors an award which is presented to the outstanding man in the chapter. This award, which is a life membership in the A. S. C. E., is based upon scholastic standing and extra curricular activities.

First Row: Hunt, Mansell, Petersen, Baty, Compton, Vanderhoof, Dalton.
Second Row: Cowles, Newton, Peltier, Osgood, Converse, Rau.
Third Row: Carlson, Pontius, Dreifort, Byers, Blaha, Tacl.
Fourth Row: Snow, Jackson, Schmidt, Vogt, Pochomis, Peters, Engler, Green, Noragon.

Left to Right

First Row: Steel, Hannon, Cook, O'Grody, Skidmore, Webb, Schueren, Dowden, McLane, Nigut, Rock, Kluge.

Second Row: Roberts, Henrikson, Koellish, Bennett, Cerney, Herwald, Blumenschneider, Neely, Sperling, Graham, Cairnes.

Third Row: Hilderbrand, Meyer, Willard, Ganger, Fromson, Berlin, Swartz, Swanker, Fraas, Jamison.

Fourth Row: Hookway, Andersen, Gloor, Hitz, Wilbur, Marble, Sicherman, Beckling, Williams, Bosworth, Cummings, Ross.

Fifth Row: Deuring, Courtot, Hodgson, Schenk, Seaver, Warner, Follett.

Sixth Row: French, Van Hammersveld, Andrews.

During the last two years the A. S. M. E. has started a campaign to place the organization and its facilities more prominently before the students of the Mechanical Department. This year under the leadership of Professor G. B. Carson the club has climaxed an unusually successful membership drive with one of the most active and effective years of its existence.

The activities for the year were opened with a picnic, which was followed by a banquet and treasure hunt some weeks later. Other social activities for the year included dinners and inspection trips, and all of these affairs were very well attended. In addition to the above, the usual opportunities were provided for the student members to familiarize themselves with the problems of modern engineering through lectures and discussions of men prominent in the engineering profession.

Once again the student members presented papers on various technical subjects in preparation for the national contest held at Toronto. One of the chief goals of the club was to have as many members of the Case branch as possible at this national meeting. The chairman of the student branch for the year was W. B. Seaver.

A. S. M. E

First Row: Happy, Loeffler, Melby, Dr. Seletzky, Mills, Middough, Hanville.

Second Row: Nehman, Quayle, Beears, Wening, Reed, Dudek.

Third Row: Jimenez, Haberland, Bigelow, Cohen, Mendelson, Willison, Risser.

Fourth Row: Wirtner, Duff, Knox, Beth, Zulak, Gilliland, Grader, Engelhardt.

Fifth Row: Winterich, Birmingham, Mikos, Frismuth, Welf, Gravenstreter, Louden.

A. I. E. E.

Students of electrical engineering at Case are organized into a junior branch of the American Institute of Electrical Engineers. Membership, as in other departmental organizations, is open to sophomores, juniors, and seniors. Meetings, which are held once a month, do much to achieve the object of the organization, the development of the students' abilities and talents. This provides a medium through which the students may keep in contact with the latest developments in the field of electrical engineering. At the meetings students present papers on electrical subjects of general interest to the rest of the department, and the discussion of these papers provides very valuable experience for all concerned.

At various times throughout the school year the Case branch holds joint meetings with the Cleveland senior branch of the A. I. E. E. The personal contacts with experienced electrical engineers thus provided is a valuable asset to the men looking forward to work in that field.

PICK and SHOVEL

The Pick and Shovel Club was founded by a former professor, Dr. Smith, and the late Dr. Van Horn, and has the distinction of being the oldest departmental organization on the campus. Membership in this club is limited to the students of the department of metallurgy. Under the guidance of Dr. Donaldson, the club promotes the ideals of good fellowship, along with the mental and social culture of its members.

The club meets regularly, and brings in outside speakers from time to time. The members attend lectures given on metallurgical subjects by the American Society for Metals, in order that they may learn about metallurgy as carried on in actual practice. Social affairs run a close second to the serious affairs of the club, many plans being under consideration at the present time.

First Row: Sutton, Amsbary, Fettu, Cerness, Wistar, Andersen, Franzen, Carlsen, Rose, Abramovitz, Erthal.

Second Row: Spare, Ladd, Bowman, McGee, Elliot, Nieman, Maurer, Dyble, Sezemsky, Kasper.

Third Row: Allen, Jacobs, Olmsted, Phillips, Schumar, Perkins, Zurawski, Kudzius, Schauss.

Fourth Row: Anthony, Lyle, Lally, Trinter, Fiordalis, Pekarek, Eglin, Long.

First Row: Barkalow, Wolkov, Zaffarano, Franko, Kalal.
Second Row: Klein, Scott, Dawley, Hickox, Bungarda.

The Lambda Club is the official departmental organization of the undergraduates majoring in Physics at Case. The organization fosters a better understanding of scientific and social questions among its members. The membership of the Lambda Club is open only to juniors and seniors in the Physics Department.

The club held frequent discussion groups on timely subjects. The questions used included both those of a scientific nature and those with a social and political significance. The activities of the group included a Halloween party, several get-togethers and an evening at the home of those genial hosts, Dr. and Mrs. Nassau.

LAMBDA CLUB

A. I. Ch. E.

Senior, junior, and sophomore chemists make up this organization of A. I. Ch. E, which has now completed its second year of existence on the campus, replacing the former Alembic Club. Professors W. R. Veazey and C. F. Prutton secured the student charter from the national organization of the American Institute of Chemical Engineers.

A joint dinner meeting is held monthly with the Cleveland professional chapter. Each of these meetings features a speaker on some chemical or engineering subject. As always, the high spot of the year is the annual Christmas party, when students and faculty get together for a good time. In addition to these functions, the group is getting together a basketball team for campus competition.

Any member of the Chemical Engineering department is eligible for membership in A. I. Ch. E., and at the present time the chapter includes ninety members.

First Row: Betz, Muehlberg, Klamm, Zorn, Houtz, Hartzell, Mayer, Pepper, Blenkhorn.

Second Row: Smith, Morgan, Peruzzi, Jones, Thomas, Seaton, Friedman, Siskin, Gay, Crandall.

Third Row: Pasek, Kronbach, Davis, Harlow, Wiese, Dunasky, Larson, Balharrie, Shaffer.

Fourth Row: Reilly, Guentzler, Denton, Webber, Frischmuth, Bulan, Vynhalek, Zipf, Devor, Bettcher.

Fifth Row: Loretta, Snyder, Keim, Green, Little, Stuhr, Edgar, Karkau, Kopf.

Sixth Row: Gordon, Lacey, Williamson, Michalsky, Beears, Michalsky, Stollmayer, Slany, Selker, Edgar, Bendel, Metzger.

Seventh Row: Fuller, Hansen, Ornstein, Melby, Schrauf, Crawford, Wood, Larkin, Gotterher, Prior, Bishop, Silsby, Kuhlman, Atkinson, Bow, Dillon.

EVENTS

ALL CASE BANQUET

This year the All-Case Banquet was combined with a rally for the annual Case-Reserve Thanksgiving Day football tilt. The dinner for a capacity crowd was served in the gymnasium of the Case Club while the Case German Band, in fitting attire, serenaded in their usual rollicking style.

After a sumptuous repast, toast-master, Coach Carlin, was introduced and he in turn called upon the Glee Club for several musical selections. An unceremonious interruption resulted in the presentation of an ample rubber bib to Coach Carlin, inscribed with his newly acquired title, "Bibs", and he obliged by wearing it the remainder of the evening. Following this came short talks by such campus notables as President Wickenden, Coach Ray Ride, Joe Moore, and C. F. Chapman. Lastly, the toast-master introduced the long awaited speaker and humorist of the evening, W. H. Eisenman, who left his audience practically helpless with laughter.

The rallyers then hurried to the rear of the grandstands on Van Horn field to watch the famous actress, Miss Rita Rio, touch off a huge bonfire. The rally was climaxed by the total disruption of peace and order on the Reserve Campus and in the Theatre district. A forced, but surprisingly orderly entrance into the Park theatre ended the evening.

BAG RUSH

Amid the putrescent odor of eggs which had died of old age, tomatoes with a touch of rheumatism, and oranges which had seen better days, the freshmen defeated the sophomores in the annual bag rush.

Undaunted by the strategy displayed by the 60 sophomores who showed up for the annual massacre, the freshmen, led by Jack Eichler and Joe Poremba, made short work of the bags filled with sand and sawdust, of their opponents' clothes, and anything else which got in their way. Especially gratifying to both sides was the rout of an open roadster full of Mather girls who had come to see the fun. Their retreat was hastened by a barrage of the aforementioned vegetables.

The final score of the contest nobody knew—nobody cared—the freshmen had more clothes left, so they won. Next year they will go out to take their beating at the hands of the class of 1942.

FRESHMAN CAMP

Splash! Splash! Splash! Thus the traditional battle between the early squad and the rest of camp started one of the wettest sessions of Camp Case in the history of the school. The early squad, thirty strong, managed to duck about half of the three hundred new arrivals in the previously dammed brook before the element of surprise had worn off and the odds became so great, that they broke the dam to save their own necks and escaped.

With the customary disregard for rules, many fellows brought their cars to camp and secreted them in the woods and behind barns. This turned into a good game of hide and seek with the faculty doing the seeking. It was a matter of pride that there were still a few cars that had not been found when camp ended.

Nevertheless the fellows came away from camp loaded with plenty of good feeling and practical knowledge. They left behind them a huge '40 on the assembly hall and one very tired and worn village.

JUNIOR MECHANICAL INSPECTION TRIP

With heavy eyelids and tired legs the junior mechanicals dragged themselves to class and quietly slept through Monday morning recitations after ending their inspection trip in New York City.

The serious part of the trip began in Washington, D. C. at the Bureau of Standards. It continued in Baltimore at the American Sugar Refining Company and the American Smelting and Refining Company, electrolytic refiners of copper. Philadelphia was the next headquarters of the mechanicals, who observed the manufacture of locomotives and testing machines at the Baldwin-Southwark Corporation, turbines at Westinghouse Electric, radios, records, and cabinets at the R. C. A. Manufacturing Company, and hats at the John B. Stetson Company.

Then came New York. Interspersed with the Brooklyn Navy Yard, the Wright Aeronautical Corporation, and the Consolidated Edison Corporation were technical inspection trips after dark to plants such as the International Casino, the Paradise, the Cotton Club, Roseland, the Hickory House, the Swing Club, and various other manufacturers of victuals, liquid refreshment, and terpsichorean entertainment.

The students, faculty members, and "B & O Joe," the railroad agent who accompanied the group, all agreed that the trip was one of the most educational ever sponsored by the college, and many were heard to ask that another trip to New York be scheduled next year to complete their education.

JUNIOR ELECTRICAL INSPECTION TRIP

Twenty-five aspiring electrical engineers and two instructors left the Case campus on the morning of March the 31st to spend the next ten days bus riding, walking and sleeping. These ten days proved to be ten days full of complicated electrical circuits and machinery, for not a minute was lost in their extensive schedule.

Probably the highlights of the trip were the hydro-electric plant at Safe Harbor, the N. B. C. Television studio in New York City, and the Bell Telephone Laboratories in New York City. Modern industrial methods of electrical production, experimental research in electrical fields, the most modern developments in television, telephone equipment, etc. impressed on the members of the group the complexity of the industrial field into which they hope to pass after graduation.

Traveling on the bus proved to be more comfortable than was expected. The chief pastime for a few was playing cards while the remainder of the group tried to sleep. The humorists of the crowd persisted in giving others the "hot-foot" and pulling other tricks of this nature. Two nights in New York City left many of the fellows broke but happy.

We hope that the experiences gained as the result of these ten days will prove to be beneficial to each member by giving him an insight into the modern electrical industry.

JUNIOR METALURGICAL INSPECTION TRIP

One of the successful Junior trips was that of the Metallurgists who traveled south by bus, under direction of Dr. G. M. Cover and T. R. Graham. Leaving Thursday noon, the group visited the Timken plant in Canton. Friday morning found them at the American Zinc Oxide plant in Columbus. After eating on the Ohio State campus the lads visited Batelle Memorial Institute. A short drive to Huntingdon, W. Va., made possible a visit to the International Nickel Co. on Saturday. Stopping at Middleborough, Ky., on Saturday night in order to visit Norris dam on Sunday, the group made Knoxville their next center of operations. Two days were spent in Ducktown, Tenn., in inspection of the mine, mill, and smelter of the Tennessee Copper Co. After a magnificent mountain ride, a day and a half in Birmingham wound up the inspection with trips to the Ensley and Fairfield works of the Tennessee Coal, Iron, and Railroad Co. and to the American Cast Iron Pipe Co. amid the hospitality of Karl "Dutch" Landgrebe, '98.

Features of the trip were "13" Phillips' purchase of College Inn, the day "Elmer" Long first opened his eyes, the three battling "Barons," and the pride of the south, Mistah Splinter and Mistah Floradora.

CASE SCHOOL
CHEMICAL
DEPT.
CLEVELAND, OHIO
THE FLAVOR LASTS
INTERNATIONAL CASINO
DINNER-DANC

JUNIOR CHEMICAL INSPECTION TRIP

Friday, April eighth, will for evermore be remembered by the junior chemists as the finish of a grand and glorious week. It was on the evening of this day that two busloads of sleepy men drove into the Case campus to end a great inspection trip.

One of the groups had started ten days before and had made the rounds of the better spots of Cincinnati, and Dayton before heading for Chicago where they met the reinforcements of the second busload. To say that they needed reinforcements or to say that the second group felt they had to make up for lost time might be putting it too strongly, but the idea remained—make merry tonight for tomorrow we'll be home.

With the expense accounts well overrun (the school had underestimated incidentals) the group headed for Detroit in a flurry of ice and snow. By this time a schedule of four plants a day had begun to tell on the lads, but that old Case spirit kept right on fighting. A bumpy twelve-hour bus ride over icy roads merely called forth a burst of typical Case songs.

Two o'clock in the morning saw a tired but ambitious bunch of fellows drive into Detroit for that much needed sleep. One more night in Detroit, a day spent at Greenfield Village and the caravan of tired, broke, but good-to-the-last-drop Case men headed once more for home.

A week they will never forget had come to its inevitable close.

JUNIOR CIVIL INSPECTION TRIP

The early morning sun of the first of April saw the seventeen juniors of the Civil Department off in a streamlined bus under the watchful guidance of Prof. Ketchum. The first part of their trail of bridges, trusses, and other structures led them to Pittsburgh, and Ambridge, Pennsylvania, and thence to Washington. Here the ambitious boys embarked on a special sightseeing tour through the Capitol and the surrounding territory in addition to their regular business trips.

A visit to Princeton University was followed by safe arrival in New York on Tuesday night. Of course the boys saw all of the night spots, but their fondest memory is the four-hour inspection of the new 7th Avenue Subway. On Friday morning the over-worked group left the big city for the last lap of the trip. Stops included Wilkes-Barre and Williamsport, then Cleveland by Saturday evening.

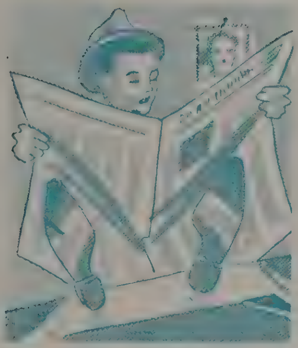
The boys are satisfied with the scholastic results of the trip, but proud of several extra-curricular activities; for instance, the little pillow fight that topped off a big evening in Pittsburgh. The debris from this affair was piled two feet deep in the hotel corridors. It is strange the things a breakage fee will take care of.

JUNIOR PHYSICS INSPECTION TRIP

Completing one of the most successful inspection trips in several years, the Junior Physicists, under Professor Albright, spent five days in Washington, D. C., viewing the scientific and cultural points of interest.

The official trip started on Tuesday morning at the National Academy of Arts and Sciences. The United States Weather Bureau, the Bureau of Standards, the Naval Observatory, the Coast and Geoditic Survey, and the Smithsonian Institute were some of the major places visited.

Not to be outdone by the other groups, the Physicists did themselves right in their social activities. Gun fights, pinochle games, and confetti wars added to the enjoyment of the trip. On Sunday morning the group returned home, and thus ended a week of enjoyment and good times.



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Doctor: "Shame on you shooting at your son-in-law."

Mountaineer: "Huh, he wasn't my son-in-law when I shot at him."

Doc. Carlton: "I won't begin this lecture until the room settles down."

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"No," came back the calm reply, "but I know where you are."

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Maid: "I don't believe it. You're only saying that to make me jealous."

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Cummings: "Yes, if you will give me a receipt."

Creditor: "Oh, you don't need any receipt. It will be O. K."

Cummings: "Is that so. Well, listen, if I should die and go to heaven without that receipt and Saint Peter starts checking up on me and wants it, I don't want to have to run all over hell looking for you."

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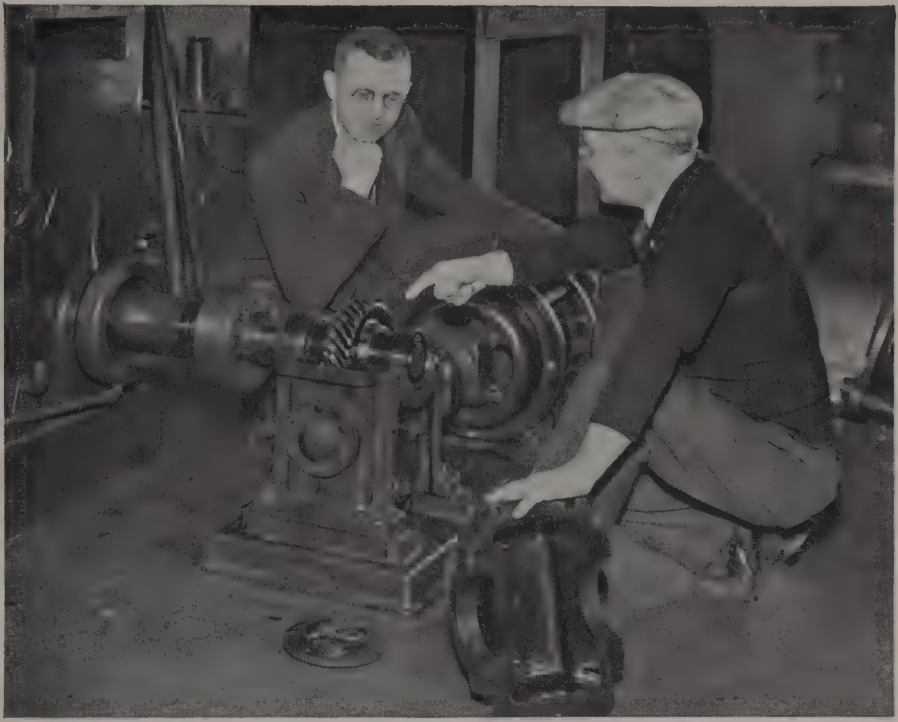

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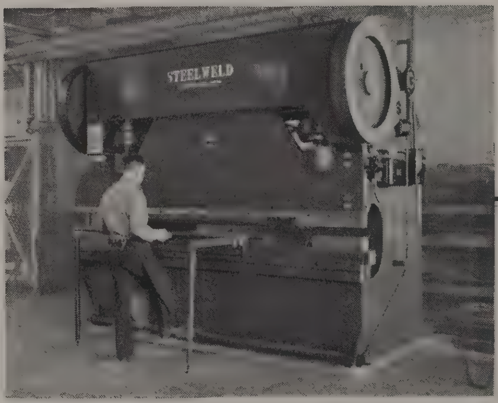

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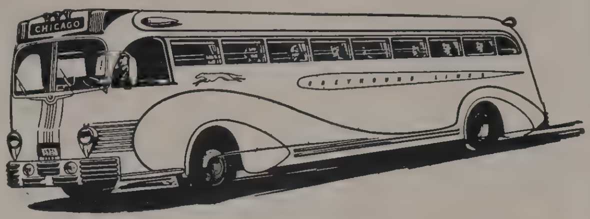

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Lines

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